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<213> Homo sapiens

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<223> Genbank Accession No. L19871

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<211> 309

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 1493

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M13955

<400> 410

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M18737

<400> 411

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<211> 1483

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M19045

<400> 412

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<210> 413

<211> 980

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M19309

<400> 413

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<211> 3778

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M20543

<400> 414

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<211> 961

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 676

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M21494

<400> 417

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<210> 418

<211> 1688

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M21665

<400> 418

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<210> 419

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M22406

<400> 419

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caccaccgag cacacagacc ccaacaacga caccatcag caccaccacc acggtgacc 180
caaccccaac acccaccggc acacagaccc caagatcgac accatcac 229

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<210> 420

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M24069

<400> 420

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<210> 421

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M26311

<400> 421

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caccctgaac cagggggaat tcaaagagct ggtgcgaaaa gatctgcaaa attttctcaa 180
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tcatggtggc cacggccaca ggccactaat caggaggcca ggccaccctg cctctacca 480
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```

<210> 422

<211> 213

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M28590

<400> 422

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<210> 423

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M29645

<400> 423

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<210> 424

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M30894

<400> 424

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agagccccag agaggaaggc atgctgttgg ctctagctct gcttctagct ttctgcctc 180
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ccacctgga ggattattat aagaaactct ttggcagtgg aacaacactt gttgtcacag 540
ataaacaact tgatgcagat gtttccccca agcccactat ttttcttcct tcgattgctg 600

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aaacaaaact ccagaaggct ggaacatatc tttgtcttct tgagaaatct ttcccagata 660
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cactggacaa agaacacaga tgtatcgtca gacatgagaa taataaaaaac ggaattgatc 840
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<210> 425

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M31994

<400> 425

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aataaaaaa accttgcatt attcttgta cttttgaatt tttttaagta caagtttttg 660
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```

<210> 426

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33197

<400> 426

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<210> 427

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33493

<400> 427

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gagagtccgc gaccgatact ggatgcactt ctgcgggggc tccctcatcc acccccagtg 180
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<210> 428

<211> 1056

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33653

<400> 428

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```

```

atgggaaagg acctcgcggt aaactaggag acatgggccc tcttggtccc caaggccccc 180
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<429

<211> 1238

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34338

<400> 429

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<210> 430

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34516

<400> 430

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gcagagaaga cgggtggccc tgcagaatgt tcataggttc ccagcccca gccacccac 360
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```

<210> 431

<211> 1060

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34996

<400> 431

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<210> 432

<211> 1104

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M35252

<400> 432

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<223> Genbank Accession No. M37984

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M57466

<400> 434

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M62831

<400> 437

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<211> 1244

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M63438

<400> 438

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<213> Homo sapiens

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<213> Homo sapiens

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<223> Genbank Accession No. M91029

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<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M92843

<400> 447

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<210> 448

<211> 2075

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M92934

<400> 448

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<210> 449

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M94880

<400> 449

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<211> 309

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M98539

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<211> 2653

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M99487

<400> 451

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<213> Homo sapiens

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<223> Genbank Accession No. N22006

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 <222> (1)..(450)
 <223> n = a or c or g or t

<400> 453
 tttcaagtca cagattacat atatttacat taattcaaat gtccaaagca cagtacagta 60
 gggctctat t aatagttcac ataatttaag atttacatat acacaagcac atgaaccaat 120
 attagtttgc tagaacaggg atttaagaag ttactcagac attttggtat tgacacttac 180
 atatttatgg caacaaatta tgatgacttt aaattttcaa tgagatcttt tgtacaagaa 240
 tacagaatgg gaagaatgta caaaatgaaa agacaggcaa acaaatgtac tttccttggc 300
 actatttcta taacaccata tagggttgtg ggcctcgggtg ccgaaattcc ctggcaagcc 360
 ccgggggggtt ccacacctaag ttctnaggag ccgggcccgc acccgngttg gaagctccca 420
 gcttttttgt tccccttttag gtgagggtta 450

<210> 454
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N23352

<220>
 <221> unsure
 <222> (1)..(368)
 <223> n = a or c or g or t

<400> 454
 nttgcacttg gggtaatagg tttattatct ctatatata gtaagcattt attgatgttt 60
 gtcaaaaaa agagacaaga taacaaaaac tatttttagca tgaaaacgag atagctgcaa 120
 tagactaata ctgagcttaa agactccaaa aagagcacag aacctgaaat gacagttttc 180
 aggttggtata gttatccaga caatgaagtc aactatacaa ggcaagcaac acatgacaat 240
 aaaacacccat caacagtttc ccactggagg atggaggagg gcttgctggg gcctgggnaa 300
 ctangtggga aaaatattta aaatctcata aatcctccgt atcctttttt tccnatttca 360
 gggaactt 368

<210> 455
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N23730

<220>
 <221> unsure

<222> (1)..(375)

<223> n = a or c or g or t

<400> 455

```

tcgcattcaa cttaaatgnt taacatngac aatgtcttgg aacaataagc aaacaatgct 60
taaatTTTTc attcaaattc actttccaca tgtcaaaaaga cctcaaggta gaaaaaaata 120
aaataaaaaat ataaatatct gagaatccat cttaataaat aaattaaaaa cncnnnnccaa 180
cgttttcacn nccccntggt aatgtcagaa cattcagacc acctcaacaa tgcattgatca 240
gtaacattac aatgaacatt gatgttgaag aaaaactaca gtacatggat atagctatatt 300
atttctatct accagaaaat aaagtcgtat cttttcttag tataatattg gtcatttcta 360
atcagaacac actat
375

```

<210> 456

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24761

<220>

<221> unsure

<222> (1)..(469)

<223> n = a or c or g or t

<400> 456

```

anaattcaaa cttttatttg gcaataagtt cagagtcaca taacacataa aatcaacatt 60
taaaataaat agcaaattca catctagaat aaataggctc gcctaatttg cattaattgt 120
gcctgatatc atacaggcac aatctgtcat tccacgagat aactggaaaa gtctccaaag 180
tcagagttca aacctgcagg actgaaaaca cacagaagca ctgtcgcagg ttgggttccc 240
cgaaagcaga tactgaggtg gagaatggcg tgcaggaagg ttcataggac agtgctgtgg 300
gctgagccgg ctgggtacag gcttgtcagg gagaggcact gggctgtaat gtggccacaa 360
tgaggtctca ctggacccca caaggggctc tggagctggg atggccccag aggttttccc 420
aagttggggg gaggaggcca gacctttgta ccccatatgg agccggtaa 469

```

<210> 457

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24899

<400> 457

```

gttggttgaa aaacatttat tgcaattcag tgtcaaaagt tttttacaaa aatatgccac 60
cgtctgggtac aaacaactat aaaaaatcag ttcattcatgc aagaaaagtg tgcaaataat 120
ttatacagaa ggactcagct cacacaatat taaataaaca tctctgcatg taattggtct 180
aacttttatgc ttttagttaca atgttcaacc ccctctaata cttttcattt aaaaaagtac 240
attaaagctt ctaagcttag gacacaggct gtaatatatcg cccacttttag ccatgggtgat 300
tggcacttgg tagaataaag attggcacca aggattccca agtatagaat acagcttggg 360
gccttctgct taacagactt gtgcttcgtt aattaaacaa acacatctat actcaaagac 420
agaaaaagtc atgtttaaac tccagaaata atgt
454

```

<210> 458

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24902

<220>

<221> unsure

<222> (1)..(441)

<223> n = a or c or g or t

<400> 458

```

gggtcnacagc cgttttttcta gttccaagtt ttaaatacat ggaaggaagt ccggggagaac 60
catatgaagg agcaggagga gaggaagaaa cttttttttcc ttctttttcca ggagtagctg 120
gaaattaaga tcgggttcct tttctgccag cttggaaggg caaccccatg actgattgctg 180
attctgagga tgtctatgca aagttggatt cttgtttacag tgtatccaat ctgaagtatt 240
gcacatctga actgggactg ttaacactga tgccaatata gtgtgggggtg ccagaaagtg 300
tctgctgata tttgtggaaa aaaaatctat tttgtttacc tactgtatca aaggggagtc 360
tggggggagaa tggtagtatt tttttttttt atcagctgtg aaaaaaatgt tacagatctg 420
cacattttctg tgtgtactat g                                     441

```

<210> 459

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26713

<220>

<221> unsure

<222> (1)..(466)

<223> n = a or c or g or t

<400> 459

```

tgattattcc agaataTTTT attttcccaa agaaggTTAA ggatagaatt ttgtagagtt 60
tttgTTTTTT taatgcatcc aacacatagg agaattttat tttaaagccc tttttaaaaa 120
tgaaaattct agttgggtcat caattctctt cagagcaaac atcattttatt ctactctata 180
aaaagaaacc taaacaaatt aagatgacaa gtaagaaaaa cttattctct ttatctcctt 240
taaaacccaa attttagttc tgctgggctg gttttcttca aattctcatt attttaccaa 300
tgaggcactt tataatacaa atgcttaaag tgttgaggga ttctgactcc caaaaacatc 360
atgtggatat aacaagattt gtactactga cgttggatat acacaattaa atcnttcctc 420
ctagtggatg atggaaaatn aatgggttga ngtaanaccg gatcca                                     466

```

<210> 460

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26801

<220>

<221> unsure

<222> (1)..(221)

<223> n = a or c or g or t

<400> 460
 tttttttttt ttgatgcaaa tgttttttatt tgccacttaa actacagttt ccctgtgcta 60
 tccngatggt gtgggggtgt ggaacaggct gctggaacca tggtttacag tagtagcagg 120
 tagatgatta gtagcatgag tggtgaaatg ctgcatctaa gtgcctgtca ctttgctccc 180
 aggggaatat catgcagccc aggaatagtg ttagactggg a 221

<210> 461
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N26904

<220>
 <221> unsure
 <222> (1) .. (445)
 <223> n = a or c or g or t

<400> 461
 aagtttttta aaatttatta tttattattt ctttttgctc ttgtttcggt tctcttcctt 60
 gagcttcttt ttggagactt tgggtctatt ggcctttctg tataggtgat acccaatgag 120
 gcccaggagg ntcggcacca tggccatccc taccagaggc aaaatgccct tcaccagctt 180
 tanccagtag ttggctcgga ttagtgcaat cagctccacg tcatactgca ccactgcatc 240
 cgctgggaca gatggtggaa atccccgttt tccataggcc aagtgagaag gaatgattgc 300
 ccttcgcttc tctccacac acatgtcgag aagactctgc tccagacctg gaatcacctg 360
 cttttggcca agttctataa ccagaggggtc tctgggtccag ggaggtgtca ataatacgtc 420
 catctaccaa gcttcccgtg tagtg 445

<210> 462
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N29568

<400> 462
 ctttatcggt atttgtttgt ttctgttcct tatcttttcc attctctgtc ttctgctctt 60
 ctagatacct ctttgtatag gctgctcctc ctgaagcagc actctcctcc ttctgagatg 120
 agccatatgt ggagccagtg gatggtggac tcttaccac agggctcttt ttggatggac 180
 tcagggaccc agaaccatgg tcgaactgac cttggtgtgt ccagactga taccggcac 240
 cactcggcag agttgagccc atctgggatg tgctggaaag tggaggacta ggttttggca 300
 cggggctagg acggggtgac cgccgcctca ccaccacaga ctgggagggg gcttttgaga 360
 gctgggcttc gctcccagg actcagctca gaaactgctg aggcccgta tgcagaacca 420
 gtgccgtagg tggcatca 438

<210> 463
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N30198

<400> 463

```

tatttttcat gaaatgattt attactttta gaaaacagta taaacttaca aactataaat 60
taagatatataa gtatatatttct gccaaagtaa gtcaagaaaa atgcacttca gaatcagctt 120
ttattacagg caatgtattg taaactcgaa catccagaat ctgagttaca cttattattt 180
ttaacattttt actcaataaaa aatctgatat actgggtcca agtgatgaca cattccaaat 240
taatgtaact ttcttgcagc ttaaataaac aaatttagat caccaagtga aatcaaagcc 300
aagtgtattt gcacaactca agaatgatgt gaatggatta gaatctctca tagtgcatac 360
ttcgccattt atacacaaac tttgagagtc ttctgagtga catgggtattt aactttgttt 420
ccaagggccca aataactaaaa tgtatagaat atcctactct atactcacta ttaaatgtca 480
tggactaggg aaatctg 497

```

<210> 464

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N30856

<220>

<221> unsure

<222> (1)..(585)

<223> n = a or c or g or t

<400> 464

```

gattaaaaag agaaaatata ctgtaaaata tttattttaat aaaaataatt ttataatcta 60
tacagaattg aataaaaaagt acaacaaatt attttctactt atttacaaaa ctgcatacag 120
tacaacttgc acattgagtt cagcattcta taaatatggc cacataccaa gatgtgaaca 180
tattcttgtc ttatataaga aaaggctcag gttgtatgcc acaaactttg aattaaattc 240
cagggaataa ttgctttggg aacatgaaca atttgtacca cattccatta aaaaaagatt 300
taataaaatc cctcaaacag cacttttcta cttgtttcgg agtacacaat tcccaaatta 360
gcacaaacaa aacaaagcaa aaaaagaaaa acagacagaa tgtaaaatgn aggttgctac 420
ttttatgata tcacttccct ttcccttcct tagctagtgg tcctttccct tcccctaata 480
gtaaggggtg gngaattggaa atggcctatt cctatcccca tccatttgcc tccaggatcc 540
ctgcttaacc naatgnggta tggtcgnctt ggccacctgn cacc 585

```

<210> 465

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N32748

<220>

<221> unsure

<222> (1)..(579)

<223> n = a or c or g or t

<400> 465

```

cagcagaaga gtgacctgat tttattcacc ttttattgga aatctgtggg acagaactag 60
gcaatgaggg tgctacaata ataaagggtga gtgttggcag tggcttgacc agagcagaag 120
tggaatgaa acagttggat tctgtttgtt ttcaaagaag agtcataga acttactgat 180
ggnttgttat gtaggatgtg aaagaaaacc acagaaatga ctccaactaa aacagtaaaa 240
tgccattcac taatttcaag atgatgagag aagctgtttt gcagagataa tgaaagaaat 300
tctgtttgaa gcctattaaa gtttgaagtg catattaatt ggactttcaa gttgagatgt 360
caagtaagta gcagggtctc tgagtatgga atacnaggct gtgggcnagt gacttancgt 420

```

```

ctgcaacatc cacatatagg cagcatcncc atagcaacaa acatccngtt ccaaataatc 480
cgccngatct tcttcctcca cgtccatctt cctcagagtc catcaggggc cncagnact 540
ggcnaatcca cncatgngcc cgttacctcc ttctengca 579

```

```

<210> 466
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N33927

```

```

<220>
<221> unsure
<222> (1)..(355)
<223> n = a or c or g or t

```

```

<400> 466
acaattctcc gcagatttta ttaattataa cttttttttt cagacgtcct gccatcttct 60
cattcagact tttcttagca aaggtagtcc atggcaagta atgaattccc agtaactagg 120
tctgtaacag aagtaaattc tgtttttatg ttataaaact caaaaagtaa catgaagtgc 180
aaacaccttt agttccttcc cctcggtaac cttcttttga tgaaccagtg tgcagcaaac 240
caggatgaag ttggatttgg gtgggatcca cacagggtcat tttcaggcaa gatgagactt 300
cccaagttcc atgnatagat tcatattatc agttatttta tgcattcatt tctcc 355

```

```

<210> 467
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N34817

```

```

<220>
<221> unsure
<222> (1)..(455)
<223> n = a or c or g or t

```

```

<400> 467
aacagggatt tatagcagct ttattcaaaa taactaaaat ttggaagcaa ccaagatgcc 60
cttcagtaag tgaatggata aactatggta cacacaatag aacataattc agcactaaaa 120
agaaatgggc tatcttgtcc tcaaaagatg aggaaactta aaagcatatt actaagtaaa 180
agaaggcagt ctgaaaaggc tacttactat ataactgcaa ctatgtaaca tgcgaaatga 240
tgagatgggt ttgcagggtt aaggggatga tatgtaataa acaggaagag cagggatgac 300
ttttagaaca aagtgttctg tgaggtacta taaggctggg atacatgtca ttatacattt 360
actccaaacc cataagcatg taaaaccncc aagagttaac ccctaattgg aaacctatgg 420
gcccttggga ccacctatgg atggcnccaa tggta 455

```

```

<210> 468
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N36001

```

<220>

<221> unsure

<222> (1)..(412)

<223> n = a or c or g or t

<400> 468

```

attagtgaat tagtttattt aaaaccatca gtttttccaa tgtgaatgga ctgggttcata 60
tcacaccata tttagagata caaggtgatt ataactaacg tgtctacaag acatactggg 120
tcaaacaatg tgatcaatcc aaagggtatc ttttttaaaaa gaatttaagt actcagctgc 180
aaagataagt tcaactaatga gattttcttt tttttttttt taaaaaaaaa aggttttttaa 240
tgagtcaaat ttattacaaa aacttagtgt gtaatcaaag ccaaatacat tcctcaggca 300
tgccagcgga acgcaaaaata atgttaatag aatgttatta aaaaataaaa ctttttctga 360
atgatataata taanacctca tggcacatta tcctcatattg gacaacngga aa 412

```

<210> 469

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N39415

<400> 469

```

cagagaataa cattttattt atttggaag ttttctctaaa tatgagacta tctgctattt 60
ctcagactaa gtgaaaaatt taataaaaata gctgccttga taggaggaaa acaaagtctt 120
tactttataa ggaataacgt atgaatcata aaagaagaat gagcgatcat gggaaacatt 180
tagcttttca aagtttttgg aacatgtacc tttaaagtctt ttgggatcca gtaaaggcca 240
ggaaaggcaa agagttgaaa gtttcttgga tttatcctcg tacttacatc attagtaata 300
ggaataatgc atctcaaatt tggggcattt atataaaaac atgattttta aatggtagtc 360
tagtataaac taggattttg taatgctgtt taaatatttt catattactt tgtttcgaac 420
gtagacattc 430

```

<210> 470

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N40141

<400> 470

```

gctgactcaa gttcttcagt tcacgatctt ctagttgcag cgatgagtgc acgagtgaga 60
tcaagatcca gaggaagagg agatggctcag gaggctcccg atgtggttgc attcgtggct 120
cccggatgaat ctcagcaaga ggaaccacca actgacaatc aggatattga acctggacaa 180
gagagagaag gaacacctcc gatcgaagaa cgtaaagtag aaggtgattg ccaggaaatg 240
gatctggaaa agactcggag tgagcgtgga gatggctctg atgtaaaaga gaagactcca 300
cctaataccta agcatgctaa gactaaagaa gcaggagatg ggcagccata agttaaaaag 360
aagacaagct gaagctacac acatggctga tgtcacattg aaaatgtgac ttgaaaattt 420
tgaaaattct ctccaataaa gtt 443

```

<210> 471

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N47686

<220>

<221> unsure

<222> (1)..(513)

<223> n = a or c or g or t

<400> 471

```

gggttttatgg ggtttaattt ttaatactgt taacatcatc gagccagcta aacaccaaga 60
atatcaataa atactaatag tttgttttca cttcctcctt ctgttggagc actttgactt 120
tatatacatt ccagtcttag tgccaaggcc ccattgggtt tcaaattcca taccagagca 180
catcacctgg atgtgactct catatgctca aggatattcc tggagttgaa aggaaataca 240
aatgagcat aagaacagat tacagacgcg tcagtatgaa agttgatact cgtgaaaaac 300
agcagtttgc tgagaccctg gaagtttagct ggagcagtcg ggcagaaatg actcgtgacc 360
atggctgcaa atggggcctt ttctcacaaa gggctttcca ccattctttt cttgggcttg 420
caggtagaag atgcggtttt cttcaggata agtaacttta ctgaggggca tcttgtagat 480
gttggaattt tttgtggtca tgatgaggaa cnt 513

```

<210> 472

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N48056

<400> 472

```

atataatatt caactttatt tcaaatatac caatttttaa atttatcaat ataccatta 60
cgattctttc tgagtgcacat accacacaaa ttcaatacgg attctctaaa gaatcctctt 120
aggctacttc actcaaagtc tctgcagctg cctgcactgt gaaggctgca acataaatct 180
gtctcttcac ttctccccag gccttggaag ggtccacttt gctttcaata tcaaacagag 240
catcataaat tcttggaat gactcccctg catacttggt gtggctgctt ggagcataga 300
tgacatgcct ataaaaaggc ctgtctggta accctaattg atcaataaat gctctttcca 360
gaaacatgag ttgatcattc atcattctta atactattgg gttgcttttg gtcaaagtcc 420
tggagtctct cactgaactt gg 442

```

<210> 473

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N49899

<400> 473

```

ttccaacaac atttggttta taaaggaata caaacaggca caaaacatgg ttcagaagat 60
ttattaagta aacttgctaa aatatggaca gatacactta gcagtcaaac agttgaatat 120
taattgctac ctcatataag tttttgtatc tgtattacca ggtccaaaca taaaaaccac 180
ctctgttcaa aaaataaatg ttcagagagc tgtatgttct ttgttcttgt atgtacattt 240
taaaaaaaca cctctttcca gtcttgctaa ccaagaatat tagtcatata aaagaactta 300
gaattttttt cccaagtac aagctatctt ttggctccaa aacagttctg aaggttttat 360
ttatatttta tcttatcccg agggaccaac agcagggcat acctttggcc aggccttctt 420
ggcagaaaga cacagagccg taaagggaaa aaataaaatt gccataaagg tatag 475

```

<210> 474

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N51529

<220>

<221> unsure

<222> (1)..(474)

<223> n = a or c or g or t

<400> 474

```

gcaaaaaaata aatataaaaat ttattaaaaac acccacaata ttttaaagat accaggagta 60
atacagttca caaacccagt tgtttgtgta aattataata aaatacaaat caaaaaggat 120
acatacttgc aatttctagg caccctaaat taaatttact gaaacactga gggagaaggg 180
agggtaagga ggggtagctc aggaggcaaa ccaataaagt ggaaggaaaa aatattaaca 240
aaaaggtaaa aattatacaa aataaaatta tcagcgtaaa tttactgtac taagaatatc 300
tacagtttaa tacacatcct attgcccttg agacatttgc aaaaatctac cattcatcca 360
tcaaccccag attaaacttc attttcaagt agccccagtt ttaccaagtc nagacnggaa 420
tatttccagt atgggttggt aagttcacct ccantgggag gcccgattac ccaa 474

```

<210> 475

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N52254

<220>

<221> unsure

<222> (1)..(507)

<223> n = a or c or g or t

<400> 475

```

tttctattaa tctttattta tatgatgggt ctctggaaag cacttcattt taaaacctgt 60
ttctgagata agtagcataa ggcgcatttg aagaaataact attgttgtat cacagagaac 120
ttccatgcct tgaaatcatt ttttccagag tattattaat aagatgggtc agctatgcag 180
agcaaaaaag aaaaaaaatc ttcaaaagcc aagactgtca ggcacatgaa ggtatgcata 240
aactgtcttc acattttaatt ttgtatgatt cgggagatac ctccatgtac atctaaccag 300
gtcaggcagc ataagtcctc agtaaccctg ggggtgtgccg gcttcaagcc aaagtattct 360
gttgagtttg gtttgtggag agacatttga aatgttgctt catagcttcc attttctgga 420
gaagtggaag aaatgaagcg tnaaaaggcc taggaaatcc tcgtcttctc caggctcttc 480
ttctccttct gcagnttcct ctcctc 507

```

<210> 476

<211> 166

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53359

<400> 476

```

catctaaaag tggtttttta atatatatat tttttccaaa ggaagaaatt tcttgctttt 60
actcagggaa aaaaaaaaaa ttaaggtaca tttgagtaga atgatttcat ctaaaagagt 120

```

tcttttcagga gacatctgtg attcactgca ttgtttttat tttctt

166

<210> 477

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53447

<400> 477

gtatagagta aaattttatta tagggttgta gaattcatatc aacctaaact ccttacagca 60
 ttcagcacct acacaatttt gtgcattcca aatacagata gtagtgagaa agaatactg 120
 cattagttaa aaatgactgt ctcatgaaaa ttctgttcaca tataagtcag gttaattaca 180
 gagcacctaa cagaactgca aagatgtaat ttctaaattc aagaaagttg tacaaaaatga 240
 aaaacaaaag aaaccaacaa tggtgagatc tgatatattt tacacaaaaa gttcaaaaac 300
 aattttaaatt atttcaaatt ttaaaattgc tccaccataa gatgaataaa gagcttactt 360
 aaaggaaaag aaaaaaggaa 380

<210> 478

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N55502

<400> 478

ctgtgaataa aactttttaat aatgtacagc agaaattgga caggctcatt cttatattaa 60
 aacaaaagat ttcctatatt acaattttatt tacattttgca tactgaagag gtaaagtgtc 120
 taagtggcta ttttacagtc ctttctaata aaatgtacaa aaacaaacag aagtaccgag 180
 aatgccgttc gggggccttt atggcgacgt aagaacgggc ttggacttgg tctgtgaatc 240
 cagaatccag aggtgcaggt agcactactg gatcaggggt agcctcgggg ggccaaaaac 300
 acggcttcag tttctcccca actctcactt agtgtttaaga gtggcagagg tgggtgtggg 360
 agcttcccaa agacctgctc catcttcccc agaggtggaa 400

<210> 479

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N57577

<400> 479

ttccctcagg tgggttaaagg ccaccaaaaca aatactgggc aacagggggtt tgttgggaga 60
 gttagaaata aaaaattaac caaattttgt ccctgtgtta attcaatgcc agcaaggagg 120
 caagtactga agaagaaaag ggacaatttt catactaaaa aagaattcct ctaatcatgt 180
 caccatctca tataatgaat ccagggaatc ccagaaatag aaaattagtt tcaggggacc 240
 cctgaggcac tttaaagcct tttaaaaaat tacagtaata ataaattaga tattgctctt 300
 cagaggctaa cagagcagca gaagcatcaa gatcagggtcc aaagagttat gccacattt 360
 acaggcttcc tggagctgct cagccctctt ttaaagctta gttgaatcct ttaaaatacc 420
 ctttaaaaag 430

<210> 480

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N58172

<400> 480

```

cctgaccgta ctcctcaaaa tccagattgt ttgtgcatac atttaaaaaa aaaatcaatg 60
gaaatttcca cctttgttcg aacacataaa gtatgccatg agcaatataa catcacaaac 120
gtactgtgac aaaccattaa taaagaagga ttactaagcc aggtgtggtg gtgcatgcct 180
gtagcccgag tatgcaggag gctgaggcag gaggatcact tgagcccggg agtttgagtc 240
caccctgggt aacacaccaa ggactccatc tctaaaaaat taaaattaaa aggattactg 300
aaagatctca tttctaaaaa aagaaaaaag aaaaagatca ctggaagtcc agacatgata 360
tttttaatt                                     369

```

<210> 481

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59532

<400> 481

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ggcaagtaag aaggaagttt aatTTTTTTTT tcaggattca gtggagtcca ttaatgcata 60
ccaggggcaa agatcagccc agggtaaggc aagtctggga ggaagcccac cctgccctac 120
agcagccctg gaactcagaa taggtggtga gtctgccatg gtttgctact gggcagcaca 180
ctagaccaac ttgggaatgt ggaagagtga gtctatgttc cctcagccat cccaagttt 240
acacacaggc atagcagccc tactgtgagt cagcaatcat tcctgacttg cagtaaggac 300
aatttgcatc tacggaaagc aaactggagg gggtagccta agtccgcact gcccatgtta 360
ttaccctttg caatgtgaaa aaccatggtg aggtagggtg ggcaggtttt atcctctcca 420
caaagggtgag cctttgctcc acagc                                     445

```

<210> 482

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59831

<220>

<221> unsure

<222> (1)..(473)

<223> n = a or c or g or t

<400> 482

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acctataaat atattttatt catacttttta aatatttttac aattcaaata aaaaccttat 60
atgtagacaa tctgggctaa atttccatgt atgttttgaa aaataatgtt agcatgaata 120
gattcatatt taaatatgat tttaaatact cttaatagag gagacataag aaatattttac 180
ataaaagcta agtagcatga tacagctcat gggtattttc ctcataggaa aacaattact 240
tgattttttt tttttgcata ggattaagac tgagtatctt ttctacattc ttttaacttt 300
ctaaggggca cttctcaaaa cacagaccag gtagcaaatc tccactggcn ctaaggntct 360
caccaccact tttctcacac cnaagcaata ggtaggnatc caggncccac cttctgaggg 420
nccggaagga atgggttccg gaaaataatg gnttttaaaa nattaccatt aag 473

```


<210> 483
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N59866

<400> 483
 gttttttttt tttttttaat acaaaattta ttttatttct atgtactaac aatgaacaat 60
 gggagggtatt tacaattaca gtcaaaacca taaaacactt agaattttac aaacttcaag 120
 acctacacac tgaaaactat aaaacatttc cgagaagtca aagactaaat aaatggaaga 180
 tgatactatg ttcatcaatt agagtactta atatgttatt aattctcact aaattgattt 240
 atagattcca tacaatcctg ctcaaaatcc cagcaggctt tattctgggg aaatatggac 300
 aacctaatc caaatgttat agggaaatgc aaaggaccta gaacagccaa aacaacttga 360
 taaaaggaca aaattgaaat ccttaaatat gactcccata tttccaacaa atctacagta 420
 attaagacaa tggatatagg g 441

<210> 484
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N63047

<220>
 <221> unsure
 <222> (1)..(419)
 <223> n = a or c or g or t

<400> 484
 nttatttttaa ataaatattt taattctatt gttgacattt acaagtagaa agcatacagt 60
 atgttacaaa tatcaaaatg agaaaaatat gaatgttaca taagtaacaa atataaaaaa 120
 agtatttttct taccttccct gaaagtaaga aaactattca gcataggaaa atatcagtat 180
 caaaaacaca gcttaggtgt aaaaaaagtt tttacacagt atttaaaaaa aatgatctac 240
 aaaatgacaa agtaagtgtt gaaatctgat ttcataataa ttataaaaac tgggtactta 300
 gagtaaatgt tatctgggtg gaaaataagt ccaatcataa gctttcctta ggtcaattct 360
 ttaaaatatt aaaagcatat cgaaaaattt tccaataaat aaccttnaag aggggttcc 419

<210> 485
 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N63536

<220>
 <221> unsure
 <222> (1)..(189)
 <223> n = a or c or g or t

<400> 485
 nagcaagcaa aaaactacct ttatatatga tgttattcaa atacatggat aagataacac 60
 attttatgat gtaaaaagta atatttataa attaaaaggc aagtctttct ggtattcaga 120

agtctgaagc aaccactgtc cagctcttta aaaagagcac attccattct ggtggcacac 180
aaatgtaca 189

<210> 486
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N64683

<220>
<221> unsure
<222> (1)..(523)
<223> n = a or c or g or t

<400> 486
acaacttttt taatatatat ttttataaac aggtcacgtg ataaaatagc acaagaaaca 60
cttaccaaataa ataagggttat atcttccgca tatacaggag aatgaggtcg ttatgtacaa 120
taagaaaatg atttttagggg ttgggttggtt ttgttttcct ctctcccctt aatttttcct 180
cctacagtcg ttggaaatat cacagcttca gttgcattaa tactttgggc aaatggacag 240
ctgcccctcc ccactagggg tctgtgggga ggaggggctg gagaaactgg ctccctgacca 300
ctcagccctg gagcttcctg gggctggcac tccagggaca ggaaaatctt tgggctgttg 360
atctgtttct gattcaacag catctctctc tctctttncc ctctctctcn cagtctcatt 420
ctctctctca ctctctggct ctctgggaaa cgggtactct cttccaacca gatagggagt 480
gtcccaagat tgggtgtggg gcgcgggtatc tcctggggnc ttt 523

<210> 487
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N66802

<220>
<221> unsure
<222> (1)..(401)
<223> n = a or c or g or t

<400> 487
tttttttttca ggccaaacta aagcttttatg ctataaaaaac aagaaataaa ataaggagat 60
ttataggccg gctgattgtc agcaaacaca atatatttac tgtattagca tttgtcaca 120
gtgcaaattg tacaacatta caccatttca atatttcggt ttttaaaaaat gctgttttca 180
ttaactatat tatattggca ttacaatatg acaaaggagc aaatgaaatg ttgggtgaaga 240
atttcacctt ttcacaatat caagcatatt tttttaacct tagtataagg tactataaat 300
ccaagaaata aaaacatcca caaaatatat tacatctnngg tttgtctttt ttctaagtac 360
tcaactttat acaaaagtct ttcaaaaaat atcatttccc c 401

<210> 488
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N67041

<400> 488
 aacatttcat ggaaaacttt ttattgggtt tctggataga aacaggaatt tatttgccag 60
 gaagaatgat cccatcatac ttccagctaga accagtgatg aggatgattc agtcttaaaa 120
 aagaaggaaa tccagtcata agctacagca tgtatgaatg ttaagtgaatc tacgccagtc 180
 acaaaagaca aatactgtgt aggtatccaa agtaatcaaa ctcatagaaa cagaaagtag 240
 aatacttgct gccaggggtt gcaaggacca ggaaatggag agctgttatt caatgggtat 300
 agtttcagtc aagtaaaata aaagaagttg tacaacaatg tatatatggt taacaatact 360
 gtattgtaca gttaaaaatt aagataaact tggatactta tttttaatgg acaattttta 420
 aaaatagggtg tgggtaacaa tttccaatgg g 451

<210> 489
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67575

<400> 489
 tctattttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60
 ctattgtgct aggcaattga aagtaaaaag tataaagctg cattttgctg tctcagtgag 120
 gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180
 gatcattagt tatcaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 490
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67815

<220>
 <221> unsure
 <222> (1)..(334)
 <223> n = a or c or g or t

<400> 490
 tttttttttt tggtaaagac ttttaagaga aagaagtatt ttaaaaagta gcagtgtctt 60
 gaggctcagg gtgtaggacg gggggcacag ctggtcccgg gagggccctt gtgcacaggt 120
 ggtggcccag ggcnaagtgc tcgtctcttg gggacgcgcg gccgggggac ngccatcgtn 180
 tccggccccg ggctcccggc gggctccggc ggcagggaca atggcgaggc cgctcaccac 240
 tttaggaana ccatcccggc caggacggtn tagcccagca ccaggaagag gaccttnagc 300
 anacggtcac tcttctctc canctccttg gcc 334

<210> 491
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67876

<220>
 <221> unsure

<222> (1)..(478)

<223> n = a or c or g or t

<400> 491

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agtcaagtac tttctttaaag aaacaatagc accacattgg catagctggg ccaaacaata 60
aatgggaaaag caaaatgtgc tacatctttt attctaagcc ttctcccaag tgcataaaaat 120
agtaacagaa accctggagc cacagagcat gagatcgggt tcatctacac aaacattgac 180
gttccaagga gaggaaggat tctcaagggt ggacaggcct tttgtttgtt tgtttgtttt 240
ttaataaaaat tttcaaggaa gtgatttctt ttcagtattc cattggatcc ttaggggtgaa 300
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tctgtgtatg taggggtggg 360
gttaagagat tttcatatcc ctaagaaaga gtggattcng atggagagct gcattaactt 420
tttcagggga actgcctcat cttaaaaagt ncaaactctg tgccgaattc ctgcagcc 478

```

<210> 492

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N68350

<400> 492

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accggctaaa agctttaatc cagagcctgc cctactctga tagtaccaga gtggagggca 60
gaataccaaa tgtccaggaa ccaaaggcag ggctgtgggg acctgaagag cagcacagt 120
gggcccgtgc tgctgtgggg gaaactgagg ctgggagctc agcagagacc ggtgtcaaga 180
gtctctggga actgcatagg cctgaggaac atgcattttc aagttgtcca ttgatggttt 240
cgtacctgaa tttctcacct tttgtgaaca tcttgggagg gtggggggtt tgcaggggtg 300
ttaaaagcaa ggcttgggag cccctttcct ccagctgggt gctccttctc agggcctggc 360
ctcattcagg ccactttgta gagaaatgcc ctgacctcgc aggaaggatt tcccc 415

```

<210> 493

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69207

<400> 493

```

tttcttttatt atactttttat tgtttggtta attcattttt gtctgttaca aataaaatttc 60
aaactagaga gtcacagatg ttaataaaact cgcccaatgc atcacctgcc tccgaattcc 120
atagtttcca ctgccttgcg ctacttgcac tctgattaga gaatggtaat gtgtgcctct 180
ctgaatcaag ttcaagaata aatgccctat cctggctaac acggtgaaac cccgtctcta 240
ctaaaaatac aaaaaattag ccgggcgcacg atggcgggcg cctgc 285

```

<210> 494

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69222

<220>

<221> unsure

<222> (1)..(284)

<223> n = a or c or g or t

<400> 494

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ttttatgagc aagcgtgggt tatttcataa atgcaagggt agcttaacat tgaaaaactta 60
atctaattta taattatgta aatgaaagaa taaaaataat atgatcacgt taatatattac 120
agaaactgca ttttaataaaa ttcaacattc attcatgatt taaacaataa aagaaaactc 180
ttaacaaata agaatagaag anaccttcaa cagtctgact ttaaaaagag aaagccccag 240
aaagcctatg naaacatttt acttaatggg aagataaagt ttttttctaa aaa 293

```

<210> 495

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N72253

<220>

<221> unsure

<222> (1)..(320)

<223> n = a or c or g or t

<400> 495

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cctttttctt aaggaatcca ttcattgttg aagcccagat tccctaacat atgcactagt 60
ggttggctct gggaagtaac agtcaccaga gtctggaagt tcttcgcttg aactttgagt 120
agccactggg actattggaa gccagatggc canggtattg gnaaatgggc aaggggaaat 180
cccaagctgg gctcaagagc cgtggggttag ggaagaagaa ggtcaagtgg actggtaaaa 240
attctacttc aactgccctt attcatagat acaactttcc taacagtctc actctccacc 300
agtcccatat ccacaacca 320

```

<210> 496

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N74291

<220>

<221> unsure

<222> (1)..(465)

<223> n = a or c or g or t

<400> 496

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agagaataaaa acttggattt attcagaccg tatgcttccc atttgggggtg cagagtgggg 60
gacagtcattg gggacagaga aaggcagtg atttggcttc tagggacatg ctgattgctg 120
actctttggg tgacctttgg gccaccagat gaccagctga atgatggaga tggatgatgaa 180
ggggctggcg gccaggtcct tctggagacc tcacagtgat tccaaacaga gaccaacgct 240
gtgtccagtt ggctctgttc ctctccaggg attaaggagc agatggctgg gaacactcag 300
actaattaaa gaaataaaaa ctctgggttag aggggacactc tgggggggctc caattcaggc 360
agtgggtgtgc aaattcacac atgtcgatgc gtggggccagg cccgtgtgaa aaacatgtgt 420
gtgtcngtat atattacatc ctccacaagc anctgggagc cccca 465

```

<210> 497

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75870

<400> 497

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tcagcactga tggaaaatac cagtgttggg ttttttttta gttgccaaca gttgtatgtt 60
tgctgattat ttatgacctg aactgattat ttatgacctg aaataatata tttcttcttc 120
taagaagaca ttttgttaca taaggatgac tttttttatac aatggaataa attatggcat 180
ttctattgaa aaaaaaaaaa aaaaaaaaaa aa 212
```

<210> 498

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75960

<400> 498

```
ttaaattaat agatcaaaaag ctgctcgcat tacagagaca accaatagta tgaaaaaacc 60
agcatgctat caccaaaatc caaactaaga aaaactctac aaggtaaaca acacaacttc 120
ttcaacaaat atattgtaag agggcagaga gatgctgatg aaccaatagg tgagtgaacc 180
ccaaacctgc agcttcagat cacctgggaa tttggtagag atgcaattt 229
```

<210> 499

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N78630

<220>

<221> unsure

<222> (1)..(440)

<223> n = a or c or g or t

<400> 499

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gtttattaaa ccagatttat tctccacaag ctgaagatac ctgaggttac atgaggactg 60
gcattaaata atttataaat gtatttttga ctgacagact tttatcataa ggattcatgt 120
gtttacaaaa gcaaaatcca acctctccag agctagaaag tgggaagggtg cccgggctgc 180
aacacagcct tgggggagga tgaggccaca taattctctc tgcccacact ctcagaatgc 240
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtgggtgtg 300
gactctccaa aatgcagacc caaccggang ccgggcccgc ctttccatct ggaggcactg 360
cagggcttct gaaagcggcc catcccagga gcctggcaaa cacccccaga gaccctcagg 420
atgcgcagcc ccggggcttt 440
```

<210> 500

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N79070

<400> 500
 cttttctttat aaattttatta cataataata ttataataat tattatcaat aataataata 60
 taagaaacat agatctctgt ggggcgtatc acaacgtcag ggtcaggagg cctcaggact 120
 ggagcagggg gtgaaacccc ggga 144

<210> 501
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N79778

<400> 501
 atggttagaaa attttaatat atgatttttg tagggccaat acatagtaaa gacatagctt 60
 tttttcaatt gaaccgaata aaatgatgta tttcagtaaa ttaaggcaaa ggagatagat 120
 gctatgacca gtggtgcaaa atttttcaaa aattttataca ttagatttac ctttacaagg 180
 ttatagtcaa gaataattaa tttgtatttt aagcaaactc tactgctttt caaaaaatgt 240
 cttaatcttg agtgaggaat agtgaaggta atcttaatat actgtttaac tttaaaaaat 300
 aatttttagaa ttatagaaaa gtttcaaaaa gagtatagaa tttatgcaca cccttctgcc 360
 agctttcctt aatgttaaca atgtacataa ccataatatg attttccaaa accaggaaat 420
 taacattaca gtagtgtttt aatttt 446

<210> 502
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N80129

<220>
 <221> unsure
 <222> (1)..(409)
 <223> n = a or c or g or t

<400> 502
 agtctagatg aattttattgc cattcacata tttcatagaa aaaaagatgt agcaaacggg 60
 tcagggttgt acaaaaaaaaa aaaaaaatcc aggtttatat aggttgctct atttacctt 120
 gagagcacag ctgtcctggc atcaggcaca gcagctgcac ttgtctgacg tcccttttgc 180
 gatgcagccc tgggcacact tggcacagcc cacaggnang caggagcag cagctcttct 240
 tgcaggaggt gcatttgcac tctttgcatt tgcaggagcc ggcacaggca caggagccaa 300
 caggcgangc aggagcagtt ggggtccatt tgcaggcaag gagaagcagg agttcccgat 360
 tcaagaggaa aacacgcagc gggacagatt ctogtgccga attcttggc 409

<210> 503
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N80152

<400> 503
 acctctgtca atgattcttt tgagaaaagc acccataatt tgctacttga ggatttttatt 60
 ccctggattc tctggatgct cattgcatga aaagtggaaa agtttagatc tatggaaaca 120

```

gaactgtttgc ctatatcgga aaatcagtg cttgtggaat acaggtaaga acagtgtttgc 180
tcttgaaaaa gtggacagtg ggtggtctga atgtgtcctg gtccctggag tgggttttta 240
gattgatgtg gactcttctt agacttgtaa gtaaaaaagt tgtttcttcc cctaaaaggg 300
aactcgtgcg ccttagacct gggaattttgc tgggaaactg aaacattctg tagactttac 360
ttgtttccaa ctgtatcgca gcaagaagtc tatgtgcccc aggatc 406

```

<210> 504

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91461

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 504

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ctttacattg tctaatagac ttgtttatta ttttaagctg gtaaaaagag acttatgatt 60
catgttgaag aaagagttat ttgtgcttga tacattgaag acactgttca aaagcagttt 120
gtccttataa aaggatgacc cctgtagtat ttcttaggca aggagggaca aattcaacca 180
acgaaaagca catctcgccc cgagttcccc atgattttct cacatatagc aaaaaaatac 240
acatcagtaa tttatttgaa catgcacatc agtgagtagg cancagttct ncggcgggcta 300
ctcaagacaa caanngggag aatatcagca ttacctaaat aaaaaagaga ggtgaatcac 360
accattttta ttgtctttaa aacacggata agaagagcaa ttaaaatata gtccataaca 420
gtactagcta atgtagatta cntaagtata ccatatgatt ccactaatag tgctctgaca 480
agcataaccn ccagttctag ttaaccag 508

```

<210> 505

<211> 154

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91887

<220>

<221> unsure

<222> (1)..(154)

<223> n = a or c or g or t

<400> 505

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atattttatta ttttattgct acattggaag tgaaaataaa ctgtaagaag ctgccaaagg 60
atgcaacttc atgaagatta tgaaactatt gaggcacca ttgtagaaag ttaaaattgg 120
cttatcctgc atgaggtgga agcnaaggcc tccc 154

```

<210> 506

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91971

<400> 506
 gttttgaaca cagatcactt tattggcatg gctttgtttt aagaaaagga aaagtgacaa 60
 agccaagaga cagactctgc taacagatgc ctgggggtgg ctggacattt ttgcctcatg 120
 ctgtgcaaag agggggatcc tggccacac atcctgctga ttccttggg 169

<210> 507
 <211> 139
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N91973

<400> 507
 tttttttttt tttttttttt atggggcagc ggggggtctt attcgtcaga ttttccttct 60
 tggcctactc cccaggtgtg gccagggata gtccatacag tgtgggtact gcaaggctcag 120
 gatggccagc agaccagc 139

<210> 508
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N92239

<220>
 <221> unsure
 <222> (1)..(395)
 <223> n = a or c or g or t

<400> 508
 tcagaaaact aaagcagcac ctttatttta tacatacaaa cagtataaaa tgttttattag 60
 gtaagagctg tgttttgttt acaatatatt atattgcttc aagccaatgc aaaaagttca 120
 tacattatat tccctatttc attgtgttta gaatatatta tattgtttta atgccantac 180
 cacagtgtaa tttttttttt ttttaatactg aatctctgga ataatggtaa ggtcaaaata 240
 tattgtattg agagttttaa aattaagagc aattttttaa aatgtaacaa acatctaaat 300
 atctgacaat aaaatctgaa atgctgtaac ttcaacatta actgcacat ccaaattcct 360
 gtgacttacg cattttgccc catttaacct ttctg 395

<210> 509
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N92502

<220>
 <221> unsure
 <222> (1)..(510)
 <223> n = a or c or g or t

<400> 509
 tttttttatc aaacaagttt cttttattgt ttccacacat tcataataac tatagaacag 60
 aaagattgtt ttaatttgct gtcctacttc ggtgacctga tgaatacact ggtaacagtc 120

```

cccagtttga gtaagatcag ttgaagccct tactgtataa gtccaaaatt taagaaaaat 180
gaatctcacg atgagcttcc tcaggcttcg gccgtgcgtg gaccagtcag cttccgggtg 240
tgactggagc agggcttgtc gtcttcttca gggtcactct gaaagggttg tctgggcttg 300
gtcttgccctc ccaggtttca cgcgctgcag gttttacatg gctgtgggtg atccaggctg 360
ggattccttc tacttcacag cgggtgggagg gctcagaacg acagctgggg tctttccaca 420
gtggacacaa agaggtacgt tccagttctt gatcaaatng atcactgggg agaaaagggtg 480
aactgggggag aataantaac aggccattta 510

```

<210> 510

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N93798

<220>

<221> unsure

<222> (1)..(270)

<223> n = a or c or g or t

<400> 510

```

cacggctcct gttttattgc cttcgggtgt ccggagcacc tgactgcccc ggggtctaata 60
aatttaagggt gccgagaaca ggtcaggaca aggggtcgca aaanaggggc tgggggcagn 120
tggttacaaa atatacccc accccacaac aaacaggcta gaggagacca gcctggctgt 180
gtcggggangg ggcgggcaga gggcgcccca ccagccttca gagagacaga gccacggcca 240
gcgccccaga gggagtggcg gagacaggac 270

```

<210> 511

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N94303

<220>

<221> unsure

<222> (1)..(399)

<223> n = a or c or g or t

<400> 511

```

tttttttagca agacaagggtg tttttattga ggtctcagga attgcaattt gggagacaga 60
ttcagctaga agccacttgt gttctgaaga gagagggtag aggaggggtt tttaaaaaaa 120
gctgagggtg attagacaag ttgacaagtt gttttgaaag aggcaactgg cttagtacaa 180
aaatccatag tttattgggtt ggtgctgttg aggagtgtga gtgctgggtga aataaaaattt 240
tccaggatgc agtgggtcatc gcaatttggc ccaattcaaa ggttcaagggt aagctcctgt 300
attgtttttt tttttggagc ttttaatttt ttttcaagtt gcagggtcatg tagggagtcc 360
nttttaagaa tggcttcctc cctccaattt agagttcct 399

```

<210> 512

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N94424

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 512

```

tttttttttt ttattatttta gaaatgtaaa cattttattta aaagtaggta gcaagttaaa 60
aatgaataact tgcctgaaat cataaaacat aatcaagtgc tttttaaaac agttaatttt 120
tttcctataa tttactttca tcgaaagtat attatctttg tttaacatgc tagatagaag 180
caatttagca acataaaata tattagctat agtatgttca aaagaatgag aaatataaat 240
tcagagatga gaccatcatt ttttgcagtt aaaaaaaaaa atgttgattc tgggtgcaaca 300
tacactgatt atccaggttt tacatttttag ggctgaaacc ctgaggaacc tgctgggtgac 360
tgttttagcac tngagcagag ttcagtgtgg catgcgcttc ccagagttaa aagcnaaaagc 420
agactggaga aacnaaaaaac ccacatcctt ggcatttcng aggttttcac ctggtaatcn 480
tagggtttcc ccaattttatt agaattgtt
508

```

<210> 513

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N95495

<220>

<221> unsure

<222> (1)..(462)

<223> n = a or c or g or t

<400> 513

```

tttttgccaa acatttagagt ttgtttttatt gcatgacgtt tgcataagaa aaaaagttat 60
tgaaaactgt aaggcatcat gcaatcattg aataagctaa ttattaactg tacacttaag 120
ataggtggac atataatcta aaattttaaa actagttcca gaaaagtaca taaaaaat 180
aacatgatga gcttttaaat atggttttata gtttcatgtt gttaaaaagt gcttcaaagt 240
tactgctgga aagttgctct ttacaaatgg cgctgggggtg atgtcagatt ataaactgta 300
aaaaccaagt acttttatgg aattagaaag ctaacattgt gatccccaac ttcttgaacc 360
agttttcaat cccatttcaa attaagttga ttaataattaa taactaaaaa cactgggtta 420
tcccccaaaa ggcttggtatc cagtagnctg tggccaccaaa tc
462

```

<210> 514

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N98485

<400> 514

```

tttttttttt tttttgttat atacatttta ttgaaaaaaa attttacaac aaaatatttt 60
ggcaaaactgt aaaagtatac ataagtgcaa atatatcttc cttttaaaat acaagcaaa 120
tgtgagtata cacggtcata aaaatatctt taaaatatgg tggtagaaaa caaccttgta 180
aaaacgttgt attgtcc
197

```

<210> 515

<211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R00144

<220>
 <221> unsure
 <222> (1)..(340)
 <223> n = a or c or g or t

<400> 515
 tctaaaatat aattgtttat cccaatgtca ctccacccag gctgcagtga tggcnaaatc 60
 actgtaacct cgaacacctg gtttcaagca agcctcccct aagcttccca cactggtggg 120
 attgcaggca tgagccacta ttgtctgagc agtggctctt cctgcaggct ggcttaccct 180
 ctgcatccca cccatcctgc aggtgaggct gaccatgccc ctagggtcca agagtcaagg 240
 gtaatgaaca caccatcac ctntcaaaag tgacggctct gtcctcatca atatgaggga 300
 ntttcctcan ttcttggtcat aatcagctca ggggacacaa 340

<210> 516
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R01257

<220>
 <221> unsure
 <222> (1)..(417)
 <223> n = a or c or g or t

<400> 516
 aactattctt gttttatatt ttattatact ggaacagctc gtgtcctctg tctcttgcct 60
 cggtgccttg gtggcttgcg cccacnatct cccccctttt tattaactag aatcgccatc 120
 gccatcattg cttgttggtg acttcggact tggtttcgga ctcttagag gcactctgcag 180
 actaaaagga gacaacataa gcataccaat attaataatg ccagtaacaa caatgatcct 240
 ctgacggggt gagccattt gaagggatta aaatcagggt aattgttttag ttatgccttc 300
 aaaaatgtgt gagccaggga actgtgggat aaatggggct tgtgaagcct ccaaagatct 360
 gctctttaag gttgtggaaa tatcccaagg gttaagggtt tcatccnngg gggttttt 417

<210> 517
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R02003

<220>
 <221> unsure
 <222> (1)..(258)
 <223> n = a or c or g or t

<400> 517

```

tgantntntca tagggctcgg cgtgggaaca gagcgcagga gtctgggggtg ctccaccggc 60
ggggaggggg cgcgagtc ccctctggggg gatcgggggt gctaggcagg ggtggtggcg 120
caagaaggggt ctctggagcc ggggggtctg gaggtggagg agtctcagca tcttgtttcc 180
tgtgctcctt cccagcaggt gcaggccctt ctgcctgggg tcccctctgg aaggccctcg 240
gtttccccgg cgccaagg                                258

```

<210> 518

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R08850

<220>

<221> unsure

<222> (1)..(294)

<223> n = a or c or g or t

<400> 518

```

ttccnaaanc aggcagttaa tgtgctgaca tagtaacaag gtttgaagga ggaacatctc 60
atgcacgtgc gtggaaaccc aattgtcatg tgtatgaact acaaaaggat ggggaaaaga 120
acacatttcc tcacaacagg antacatgag attagaaaga aaaccggant gaggtagatg 180
catgantgca cagacaaggn tatgtgacag gaagctgggt gacattttgc atctgacata 240
gcagtacacc tagagagccc aaggaantcc acccccaagt taccagaggc aaga          294

```

<210> 519

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R09379

<220>

<221> unsure

<222> (1)..(413)

<223> n = a or c or g or t

<400> 519

```

ttggnttgag tttggccttt cctactgcag ccaggtgaga gcttaagatg tcagtcccca 60
atatcttcac agagtgcctt tatgaccagt ttggagaatt acgatggtaa ggggaagagg 120
cagatatgaa gaggaatggg taggggaatt gtcattcata actctgtgct atattacttg 180
aggggctaag aaaaatgtat ggtcagtgaa acacagtagt gtacccttaa atgccttata 240
aaagaccatc catccagtct gcgcttttga ctgtgtgcaa gtatcagtaa taatgctttt 300
ggggggctca gatgaacagc gaacacccaa tcagccaggg gctctgggaa gggaaagctc 360
ccaaaaatga ggaagtcctt tccaacaccc atttttccca ttactgttct cac          413

```

<210> 520

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R10896

```

<400> 520
ttaagccatc caagtaaaaa aaaaaatttt aatttaacaa tgaaaaagga acttcaaagg 60
gtttatgcca aaaaacaaac cagtcctctg cagcctaact catttgtttt tgggctgcga 120
ccattgtaga gggcgatcag gcagtagatg gtccctccca cagtcagcgc catgggtggtc 180
cggtaaagca tttggtcagg caggcctcgt ttcaggtaga cgggcacacc atcagctttc 240
tggaaaaact tttgtagctc tggaactttg tttttcccag cataatcata ccctgtggga 300
atcggagggtc agtttagtt                                     319

```

<210> 521

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R11526

<220>

<221> unsure

<222> (1)..(318)

<223> n = a or c or g or t

```

<400> 521
ttttagtagc cgaccatttc tttattaaat tatacaaaan ggngggggag gggggcagct 60
gtgggggctc gcaanacccn ggccccaccc cggcctggcg ctgtctgaga agaggggatc 120
tgaggagat ccagggatca ggcaggatag ggatggggca ggacatgagg ctgggggatg 180
cagagggttag gtgggagagg ctaccngaga aggaatgagg ctggtagggg agggagaaag 240
agagcaaaga gagagaggag caattggggg ccagctggag agctcagatg gaggaggtca 300
ggaggtggaa caatggca                                     318

```

<210> 522

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R15108

<220>

<221> unsure

<222> (1)..(362)

<223> n = a or c or g or t

```

<400> 522
tttttttttt tttttttttt ttttaacggt gaaccaangt ttattaatga cagcctttat 60
tacaatcact ctcaagtgt aaaaataaag ggtgattaat taatatatta aactcactcg 120
gacttgctgt ttggcctttc agtggatgtg ccaaagggaa gggatcttgc ctgattctga 180
atcaattggc cagatggagt tcactggaga atgaggcaat caacaaaaaa gacaaatgat 240
gccaactgga gagagctcgt gtcttctcca tgttggaagg acattacaaa atggcaactn 300
tgggtggggg cagagatgaa gtaagacaac cttacagtcg gagtaagatg tgaataacct 360
tt                                     362

```

<210> 523

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R16983

<220>

<221> unsure

<222> (1)..(416)

<223> n = a or c or g or t

<400> 523

```

ttgcagagac aagtgaacat ttatTTTTgt acctttcttc ctatgtgtat ttcaagtctt 60
tttcaaaaca aggcctgagg aatctccaga ttcaattatg tccctgggct ttgtcgacag 120
ctgcaggagt cttagggagc cttgtacaaa tgctagagtt actcatttac caacattaaa 180
cccgagaata gaagatgcaa caaagcaggt ttccttcctc catgggaaag tgctgatttc 240
agacaagggc agcagccaat gtaggaaaaat gctgggaatt tttccttggg aactgggact 300
gtggatgaga ggggtgctttg cccatggaac cataaggcta ctgtcttttc ttttggnccc 360
ttccctttcc cagggtttttg gaaggnataa aggccgggaa ataaatcttt ctctgg 416

```

<210> 524

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R25410

<400> 524

```

gtggacaaat cttttatttt ctgaagacaa gtgatttgaa gtccagactg aatggcattt 60
aagaattagg aatcctgctg gccatcctgg agtgaattaa actaaattag agtccagaat 120
atgcagcttc tttaagaaaa aattctcctc tgaaatattt tctttccac tgcattaagt 180
agtgttcctc atgagacatc tggaaaacat tgattgttaa aatgtgggtc tggg 234

```

<210> 525

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R28370

<220>

<221> unsure

<222> (1)..(419)

<223> n = a or c or g or t

<400> 525

```

anatggatat tagttcttta ttgagaatca gaaatatttt aaatttacta aattcagagg 60
tagtcatggc ctctcccaa taaactttac agtcttagac aatttgtgca ttttaataaa 120
ttcttagtta tagtattaaa gaaagtggct gggcgcgggg gctcacgcct ggtaatccca 180
ggcacttttg gaggtccagg gcagaggcag ggcagatcat gaggtcagga gatcgagacc 240
atcctgggct aacacgggtg aaccccgctc ctactacaaa cacaaaaaaa ttaggccggg 300
cgtgggagac agggcacccg taggtcccg gtacttcggg gagggctgag gacagggagg 360
aattgctttg aacccgggga ggccaaggtt ncagtttnagg cccgagattc acgggnact 419

```

<210> 526

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R31679

<220>

<221> unsure

<222> (1)..(431)

<223> n = a or c or g or t

<400> 526

```
acttccaaga tnaacatttt tctgtttatt cttagaatgt gaattttttt tttcaactca 60
gggccaagta caaacttttg atttttgaaa ttttttcaac tcagggccaa gtacaatctt 120
ttgatttaaa aatttttttt catgaacaaa ccatcagtag ttattaagga gccaagaaa 180
taggagatgt gaaagcagga tttctttgtg tttcctttga atgttgttat tttgagtatt 240
atcattatca gggtaggagg gaaggaaagg gtagggctgg ggaaggtagg gtccttatgg 300
atatcttgac tatgggatcc ccaggattta catttcacct ggtcacagn gcacacataa 360
tttaggataa acatgttcaa ggaatggaca taaacagagg ggtaaaca ggggggcttt 420
acatttgggg g                                     431
```

<210> 527

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R33627

<220>

<221> unsure

<222> (1)..(247)

<223> n = a or c or g or t

<400> 527

```
aaaaaaaaact tttgaatcat ttattctttg gttgtctaca nagacactta agtactgtat 60
cgctgtcatg cagcggcctg tggaggccct ggggggtggct gggcctgtgt cctgagccct 120
cagccagatc caggggggtgc ggtgtctggt catgtccact ccaagagcag tagcaccatg 180
tagaaggctg tgagcagggc cccctcggct gagtggcaga tgtaggctca ctgctntgca 240
gccccaa                                     247
```

<210> 528

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R36881

<220>

<221> unsure

<222> (1)..(282)

<223> n = a or c or g or t

<400> 528

```
tttttttttt ngtgattata cgttttatta gactcnggga ggggtaatgg caaggncctt 60
atcangtggt ccttcaaatt aaaaaaaaaa aatacaaaaag ctacgtagaa aacgtcagat 120
```



```

cagacgacta aactttcccg actcagggcc aagttcttct tgagcctgcg ctctcgggac 180
gcctgcgagt cggctctccga gtacgggggc ggcgcgggcy ggtagtaggc ctcttcctcc 240
tcctccttgt ggggtctcct cctctcctcc gaccccttct tc 282

```

```

<210> 529
<211> 428
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. R36969

```

```

<220>
<221> unsure
<222> (1)..(428)
<223> n = a or c or g or t

```

```

<400> 529
tttttttttt ttcaagttgc tttttccctt tttattaaaa atagactcaa gcactttant 60
gtatcatata aaagtttcat tcgctggtgg cagccacggg aaagactggc ccgtagcac 120
tgattttcca cctccctcc agggacttgg gtcccaggag cagtgactgg gcctcagaga 180
aagcccataa agactgctta ctctggaagc agccgactag gggctnttcc gcgagcagct 240
ntccccaccc cacccaatgg caaaagttag atactcgaaa gtgcctcttc agtgccaaga 300
taactaaca agtgggagtg aaatgggaaa accctttgat ttttttacta ttttcccagg 360
ggcctggggg ntttttnagtt tttccctgca attcaaagtc cttttttccc ttacaatagg 420
ggggtagg 428

```

```

<210> 530
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. R37588

```

```

<220>
<221> unsure
<222> (1)..(507)
<223> n = a or c or g or t

```

```

<400> 530
tttttttttta gaattcaggt agtgttttgg tttattatct tagtgttgtc acaagtgata 60
gaaaccccca ngaagtngga angaaagagc tccntgcntg gacctacatt ttgccattcc 120
cctcttgccc tgggntcaga accttgaagc ctttgcttgg cccttgcattg ttaggatattg 180
gccaagaatc agaaactgat gcgtttttcc agcactacct gtgtgctgca ctcatggaag 240
gtgggaagct atacacaggt atccaacttg gttataagac accagttccc acagggctgg 300
atctctcagc tgtctgggta aaccagtggc acttcactgc cccaggggtg gctggctccc 360
ttcttgaatt tctgtctcaa tgtgatataa ttgccaccat tcaggatggc taccacatt 420
ttgggtatgaa caccatgact tctttaaggc aacgggggct ttctnctca gaacagtgcc 480
cctgnaattt ttcctcctgt gggcttt 507

```

```

<210> 531
<211> 239
<212> DNA
<213> Homo sapiens

```

<220>

<223> Genbank Accession No. R37774

<220>

<221> unsure

<222> (1)..(239)

<223> n = a or c or g or t

<400> 531

```

tttttttttta tgtattttcca aaatcacaaa atgcacaaca ttcattngttt ttaatatattgc 60
aacatggaat attatatata gattaaaacc acgacagcaa aaacactcac acggtaccag 120
tttcatatca aaacaaaaca cacaagtgtc ttttcaatat taaaacgact gtgataaaaa 180
catattaata ttttgaacca tgttttacaat agngcaaaaat tcatatttta ctaaataaac 239

```

<210> 532

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R38678

<220>

<221> unsure

<222> (1)..(237)

<223> n = a or c or g or t

<400> 532

```

ttttttttttt tttttttttt ttttttccng ttggaaattt tttatttacc actgcaagggt 60
ttttgtctcca aagtgtcaca ccagacatat gactacaatg tctcatgcat ctttttgtgc 120
tttagttcat gactgcaaaa cacacactta gcatttgaca acaggaaaca cagagggcag 180
aaacaaatca caaggactag ttgggttagg ttacagccac attttccccg gggctcc 237

```

<210> 533

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R38709

<220>

<221> unsure

<222> (1)..(401)

<223> n = a or c or g or t

<400> 533

```

ttttttttttt tttttttgat ttctcaacat caaagtttaa ttattacaaa atagttcaag 60
caacatgata tgantttcaa aaactgtatg ttgcttngct tcctngtttt gctccaacac 120
taatcatgct gaggtttttg aagcacagct atgactaggg caggcactct tgattttcagt 180
cacaaaaaac cttcttgat gaacaatact tgttcttttc agaagaaaag caattttacc 240
ttttctatatt ctattatgaa aaacagagct aaacaatttt tgtattttta gtagagacag 300
ggncccacca cgctggccac gntgggtctc ganctccttt caagntgttc tgccctgcccc 360
ggcctnccaa agtgccgggg nctacaggat ntgaggncac c 401

```

<210> 534

<211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R39467

<220>
 <221> unsure
 <222> (1)..(340)
 <223> n = a or c or g or t

<400> 534
 gagccacctc ggggtgactg agcggaaggc caggcagggc ttccctcctc ttccctcctcc 60
 ccttcctcgg gaggtcctcc agaccctggc atgggatggg ctgggatctt ctctgtgaat 120
 ccacccttgg ctacccccac cctgggctac cccaacggca tcccaaggcc aggtggggccc 180
 ttagctgagg gaaggtacga gctccctgct ggagcctggg gacctatggg cacaggccag 240
 ggcagcccgg agctngngtg ggggcnttag tnggggggtg ntgcttgacc cccagcacia 300
 taaaaatgaa acgttgaaaa aaaaaaaaaa aaaaaaatat 340

<210> 535
 <211> 197
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R40431

<400> 535
 tttttttttt tttttttgtc ttgtgtgtat ttttatttca gggaaagaaa tgagggatat 60
 gataagaaaa agtctattaa aattgtaagg cttactccag acaccattgc ttaaatact 120
 cccctcgcac acagagagaa aacccttggg caagtgcaca aaaacactac tcataaaagc 180
 acgggtgacc agtgaac 197

<210> 536
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42241

<220>
 <221> unsure
 <222> (1)..(464)
 <223> n = a or c or g or t

<400> 536
 tttttttttt ttttgaaaac agaattatatt attgcataca gcatgggact gtgatcaacc 60
 tggncatcaa atgccgcgat ggctgacagg gccagggcgg cgggagtgtt gggaagccca 120
 gtacacgtgc tccctctctg tgggactccg ggatccacgg ggcggatggg tctntgagtt 180
 gcgagttgtt cctgtttgtc ttccagcccc cagtccctcc cggccactct gattagccag 240
 cctagggttag ggcctggcat aaagtcacac aggcaaacc cagaagaagg aaaaaggcca 300
 cctgcatgaa caaagagttg ggttgcagag gntgcaccgg ggtaagactt ccttcatgca 360
 gttnggagtc cncatgtn gggacatcag gagatgncac cncacagaat tggtnngctag 420
 gttttnctgg gttttggccc agagaggctn attcccattn tttt 464

<210> 537
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42424

<400> 537
 tttttttttt actttctgtg agcttatgag gccattctgc acattatcaa aatgaaatca 60
 ttatgcagta accttatata tataaatcca attttttcct ttgtagaaga aaaccaaaat 120
 aattttacaa actacattta acttagtaat ataaagaact gactagtgtg aaattttgaa 180
 aatctaccac tttattttga agggaaagggt acacatcctt caaaaccccg gctaacaatt 240
 cctagggttca gttttctatt atacaaatca aaagggttaa ttccttgtgg gcaactaacca 300
 aaacttttaa aattaacg 318

<210> 538
 <211> 243
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42607

<220>
 <221> unsure
 <222> (1)..(243)
 <223> n = a or c or g or t

<400> 538
 tttttttttt aggctttgca aaatacattht aatgatctct ttcaaacaag tggtactcgn 60
 gttttctttg ctttctggag cttaaagggg tatcgatgag gcagcagtcg cgggagaccc 120
 aacatgctct tggcagatac tggattatcc aactatcaaa aatggagctg tagaagaggc 180
 atgttnaact ggttaaaaca gaaagggtat tttagtagcg tcaagttgat ctaagtacag 240
 agg 243

<210> 539
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R44397

<220>
 <221> unsure
 <222> (1)..(270)
 <223> n = a or c or g or t

<400> 539
 tttttttttt tattgtatac acagtggaaa gctggtttta tttgggagac aatgggagct 60
 tttacattgt tgagcaaagg agtgacgaga tcagtcttgc tttttagaaa gattagtttg 120
 gcagttactt atttgaacc aganttagac agcaaatcgg gatgcagggg gagaagtcag 180
 gtgactatta gtctgcgagt aattctggga caagagcagt ggtaatggaa ttnaaaggga 240
 ttaaagtntt taccaggttt tggcataaat 270

<210> 540
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. R44535

<220>
<221> unsure
<222> (1) .. (367)
<223> n = a or c or g or t

<400> 540
tttntttccaa aaatcaccac ctttaataact ccccggctcct gcacacaccc acagtctcac 60
tgggctccac cctcacttac tgcccgcgct ggatggcctt ggaggctgcc tgcccgcgcc 120
aggatgtttg gcacaaagag cagccccgaa gcccnctnaa tgntctcgat gggcaccagg 180
taagcgnctcc agtgggatgg cctnatccac aggtgcgttg ggcacacagt aggtgcggan 240
tncaatttgc ccnctgntn cctccagggt cagcaccttg aagaagtttg tgggcactgc 300
cangtgggttt ttgccgatga cctgggtant ttacgttaga tttcccatca gnctctgtcc 360
atggggac 367

<210> 541
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. R44714

<220>
<221> unsure
<222> (1) .. (398)
<223> n = a or c or g or t

<400> 541
tttttttttt tttttttttt tttttgattt tnagcaggna cagttttgat tttattgcaa 60
ggcacacaat cgtatataca atgcataatt atcatctttt aaagtacaag ataaaaatca 120
tatacattat agtaaaganc atatgagtat attcttgttt cagagangaa anttgcctta 180
aggaagctgg gttataccgt ttttgatgtt gattttcgta tttatactga atcatccgaa 240
cagctcttgg ttaggaaaat aaatctcatt gatagggnca cacaacctt cacaggcttt 300
cactttacaa tgttccantt taaagggtcag ccagtgtggc tccctggatt ttggcatggg 360
gtcatcgttt tttcatcccn ggggtcttgg gttggaaa 398

<210> 542
<211> 364
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. R45654

<220>
<221> unsure
<222> (1) .. (364)

<223> n = a or c or g or t

<400> 542
 ttttttttttg ccatgtttca tttcctttta taatgaaaat ccataagggt ttaaaatact 60
 ctttagacaca cctagcttag caaatatcat ggacctctac atttatgtga attcacacat 120
 gagctagcca gcacctcagt tctggctggc catcgacacc tgcttctccc tttggccctg 180
 gggccaggga gccctggagg ccagggttccc ctctgcctcc tccaatggag ttgccagcat 240
 cgcctttatc tcccttctgc cccaggaggc caggaagccc aggggagcct tcagccccct 300
 tctcaccnt ntgccccntn tttncagca aacctggggg cccngnttc cttttgttc 360
 ctgg 364

<210> 543

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R45698

<400> 543
 tttttttttt ttttttcatt ataaaagtca gtttattttc cttttctgtg tttcgtattt 60
 tccctttttg tcagtaaag agcaatacac tgactggaaa tctgcatgat taaataacat 120
 taacaagtgc ataaacacac cccatatcag agtataaagc aagagggtga aaaatatccc 180
 ctaaccgaat gccaaattag ggtatccctc aaaattgcac attctccct 229

<210> 544

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R46074

<220>

<221> unsure

<222> (1) .. (254)

<223> n = a or c or g or t

<400> 544
 tttttttttt tttttttttt tttttttttt ttattgcca ganccaaaga aaaaatttta 60
 ttacaatag agaattttat ttgaaacatg catttcttgt ttttttaaaa acaaatcagc 120
 aaatgcagat caagtttaca ctcttaagg caagagtccc tatgcacgct gtacatgttc 180
 atattaaatc caaaagctgc tcaccgggg aacttgtgta caaagggcaa ggccaaggtc 240
 agcaatgtgt cttt 254

<210> 545

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R49138

<220>

<221> unsure

<222> (1) .. (338)

<223> n = a or c or g or t

<400> 545

```

ttttntttttt ttttttttttg ggagttgaga tattttattaa cagatggggg tgctgggggt 60
gggctcctgc cccagagggg ttgacaggtg gatgccgggt ggggagggct gcagggtg 120
ctcctggcct ctntcctggc ttcatgggcc tgacancctt gggccancct cagggtg 180
agcgtactnt agcaccancc tttcaaagtc gttctccttg gcctgggtact ccttgatgaa 240
gggatggggac ctgtgggcat ccttcagctg ggacaggtat cggtttgtca cctcaggggg 300
nttgccaggc tgctnggaca ggacgatgag gtnnacca 338

```

<210> 546

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R49327

<400> 546

```

ttttttttttt tttggaaaaa gaaatttttt ttttaattaga aaccaagttt acatacgggt 60
aaatgggttac taaaagctca gttgtaacca ctctaacac cactagcaga acctcaagg 120
agccaagagc tcttcccttt tcccctgtta atttccagta taatgtagca gcacaattat 180
ttcatgtcac atttaagaag aacaagaacc aatttatata aaggtagaat tgtatatcct 240
taaacattcc acataaacac actgtcaaaa ctactggat atgc 284

```

<210> 547

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R51831

<220>

<221> unsure

<222> (1) .. (414)

<223> n = a or c or g or t

<400> 547

```

ttttttttttt ccatttttaaa ttatttttatt gtatatataa aaaccaaata aagcaataac 60
tttaaagacc tcacacacac acagtataaa cacctgggta aggttttntt cgtgtccatg 120
ttgacaccgg aactaccgtt aaagtgcagg ttttgttttg tgttcctttg tgcagtttca 180
ctcacatgta aacaagtcac ttggctatga tttgaccac gcccccccg ttagtttcgg 240
gagggcagag gctctaccgg ctgtcacagc aaccggant cacagncaag ntaatgcccc 300
gtgggtcctg accctgcaag cggggcatga cggtttcttg angcctagca gaggntgggt 360
aactttcaca tncctcccc accccgtggt tcactnttag gtttttgaga agtt 414

```

<210> 548

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56183

<220>

<221> unsure

<222> (1)..(538)

<223> n = a or c or g or t

<400> 548

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gtaagatggc ggggtacgac ttaactactc gcatcacgca ccttttggat cggcatctag 60
tctttccgct ccttgagttt ctctctgtaa aggagatata taaagaaaag gaattattac 120
aaggtaaatt ggaccttctt agtgatgcca acatggtaga ctttgctatg gatgcataca 180
aaaaccttta ttctgatgat attcctcatg ctttgaaaaa gaatagaacc acagttgttg 240
cacaactgaa acagcttcag gcagaaacag aactaattgt gaaaatgttt gaagatccag 300
aaacgacaag gcaaattgagg tcaaccaggg atggtaggat gctctttgac tacctgggag 360
gacaagcatg gttttaggca ggagtattta gatacattct acacatatgc aaaattccca 420
gtattgaatg tggggaatta cttcaggagc agccagaatn tctttatttt tttcagagt 480
ttggttcccg caaccgacag anatgctgta agttcactct gggggaagct ggcctctg 538
```

<210> 549

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56602

<400> 549

```
tttttttttg ctgttatgat tagatattta ttgagcacca ggagagagtc agaacattag 60
acttatagtg gaggagcaga actgaaccct ggctgttgaa ataacaattt caattaaaag 120
ctgtctggcc ctgaagaaag agaaatgac ctggatatag ctggtcctct gagctggcag 180
agctgagcct cctcggggtc ttctgggtgg caagatgcca aagttgaata gtgtctgtag 240
ggcatgatga ccaagtccca gtgctatggg catcttccct ctggatattt ggagaggagt 300
accagaagcc cccggcagag gatactagga agggcccaga gccaaatcca gcagctgggc 360
ttac 364
```

<210> 550

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R58878

<220>

<221> unsure

<222> (1)..(181)

<223> n = a or c or g or t

<400> 550

```
caaacaggtc atttggtttt attttatgga tacaccaaaa ttttataatg agttgtgttt 60
ctattttggc tttatcttcc agaaacttag aaccaaatat gcagtcctct tctagcaact 120
gtatgagagc aggtggtaag cttctatttn attgcccttg ttttcccttg actccaaatc 180
t 181
```

<210> 551

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R59593

<220>

<221> unsure

<222> (1)..(485)

<223> n = a or c or g or t

<400> 551

```

tttttttttt ttttttgcca ttgaaaagaa agtttaaatgt tacaattctc cccagaaatg 60
agggtcatgg catgccacag ggggccacat gaaactctgt cacaagcaga gaccacaaag 120
cagagagagg acctgagact atgcctttat tgctaagtca gtgggatgga tctaggtggg 180
gatgtcccct gtttgggcat aaagcaaaaa cagacattct atgggtgtca ctgggaagtgc 240
tgtgatatga gttttgtgca cccacgagag agggcttaaa aggatgatgt aaacaacttt 300
agccttttagt ttgtccctgt acttaatat tgtcaaatag ggcaaacaca aattctaagg 360
taaacacaga ttagttccgg gagcagcttg gcttatggca cacnttcagg gaaacacctt 420
ggcttaaatac ttacagggga ccacctgttt ttttcaaact ttgggggttat tccgtttctg 480
actttt                                     485

```

<210> 552

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R60056

<220>

<221> unsure

<222> (1)..(363)

<223> n = a or c or g or t

<400> 552

```

tttttttttt ttttataaaa ggaaacagac caacatcata gtgtttttatt gacaaaacca 60
taggaaaagg cagtttttagg atgtaaagta aaaatggttc tctgaaatat ctacacaaac 120
gtgaattctg aaaagttttc attaaaatcg tatttcatac aattataaac taatgaggaa 180
caaaacaatt ttcaacttct ccataaccca gactgagctt gatttatgct tgccatacag 240
aagcagganc tcttcccaga gaggggtggtg gctcccacac agctgacagc cagggttggc 300
tgtttacctt agccccatct tcccagtcgg tgttcaaaac aagggcacia ggtctgggct 360
tttcaaaaaa aa                                     372

```

<210> 553

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R60777

<220>

<221> unsure

<222> (1)..(387)

<223> n = a or c or g or t

<400> 553

```

tttttttttt tttttttatt taaatggaaa cactaatctt tattttcatc atgctgaagt 60

```

```

gtgtgggttac aatttccaat aaaacactat atataataag caaaataagt tagtacattg 120
taaactttatg cacagttttca tcaattaaca gtttaaganc aaacaagcca ttttaagactt 180
tggagctaca ttttagtaaaa nattgcaaac actcaaactct tatcaacccc aagtaagaca 240
gtaaagagct attcaagact tcttcaaaacc aattacacaa ntacatgttt attttttggtt 300
acagtccctt ggctatgcac aaggaccatt gggaatgctg ggancaattt acacatttta 360
aaaacgggca aaaaggcaaa gcaaggg                                     387

```

<210> 554

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R69417

<220>

<221> unsure

<222> (1) .. (350)

<223> n = a or c or g or t

<400> 554

```

ttttgtgggg ggggcaacta aacaaacaca aagtattctg tgtcaggtat tgggctggac 60
agggcagttg tgtgttgagg tggttttttt ctctattttt ttgtttgttt cttgtttttt 120
aataatgttt acaatctgcc tcaatcactc tgtcttttat aaagattcca cctccagtcc 180
tctctctctc cccctactca ggcccttgag gctaattagg agatgcttga agaactcaac 240
aaaatcccaa tccaagtcaa actttgcaca tatttatatt tatattcaga aaagaaacat 300
ttcagtaatt tataaataaa ggggcactat tttttaatga aaanaatttg          350

```

<210> 555

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R71395

<220>

<221> unsure

<222> (1) .. (284)

<223> n = a or c or g or t

<400> 555

```

tggaaaaaan nacaacttta ttttcagtca tttctatttc cttgggttatg aacaaaggta 60
gcaaagtgca gttgtatcag cagtgccaat agaaattaca gagtttttca tatcccttta 120
cagtttgcca caggtatctt aaaatattgt ttacactcat ctctcttcag tttaccattg 180
tttaataggc ctaccctcga tctttttatt caatatgtta ataaagaaac ctatacacat 240
agtatcacgt tatacathtt aaaantnttt tgacaactgt atat          284

```

<210> 556

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R71792

<220>
 <221> unsure
 <222> (1)..(480)
 <223> n = a or c or g or t

<400> 556
 atttattgca aactccctaa tatcacatgc tagtgcgctt gnaatttcac tcaggaatgt 60
 tccgggatgg gggccagaag gtagagagca ccatgaaagt acagcctgcg aggccggatt 120
 gctaaggggc agacttcatg ccaatggagg gacaganttc aggaccagtc tggatgggct 180
 aagctgcctt gggcngnaag gagctggatc aggccaggga gcttgagggt ctcctttggc 240
 caaccacccc caggtttcca gtcctcctc ctcactcagg gtcctgcgcg gtgagggagg 300
 tttgggggag gttcgcggct ntacagctgc cagggnntttt ggggcactac canttaagcn 360
 tgaggccccc agtcagtcct tcactnnggg aaagtittcca agganttggg gcttttactn 420
 gcattttttt cagacangtt ccggnntaagg ggttnaagct ttnccttngg ggggttnccc 480

<210> 557
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R84421

<220>
 <221> unsure
 <222> (1)..(392)
 <223> n = a or c or g or t

<400> 557
 acaaagagaa aatttttattt tcttattcctt gaaatgactg tacgattttt caatgttaaa 60
 gttcactttc aagtatgatc aataacaaga catcaaagt aaaaattatg ctgtattatc 120
 attttctcca ttgcttctta aaccactgaa agtaatttca caattcacca catttaggca 180
 tcttcttttt cactttcttc attttttact tctttaggca acaatggatc aatcttcagt 240
 aataaacctt cacttggtga actacgaagg aaagcacgta ccacaanggg acccaaattc 300
 aggcgggtct gtgcctacaa acttcattaa taagtcttg cggattgggc agctatctgg 360
 gtcacttgac atatccaatg ttggctattt tg 392

<210> 558
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R85291

<220>
 <221> unsure
 <222> (1)..(412)
 <223> n = a or c or g or t

<400> 558
 ttgntattta cangtattta aatgtgaata ttcactacct atttggtgca ngcctgcant 60
 ttttatactg ggcttgccaa aaaccogaac agctttctac tttgacaatg tatcagaatt 120
 taaatcagca atatgttaat aagccaagca aagggtatat atgcaaataa aactggtgtc 180
 tataacctcc tggttacctg gggcacagca aaagtcatgg ngtagtcgca tgtgaacctg 240

```
tcccttttcat aggctgctca ttgccgggga acatcagggg atagccattt ggggaaggggt 300
catcagccct cccancatcc gttttctgtc ttgtcttttc cctatgaggc aggggggnaat 360
tccncggtgg ggccccaatc cccagtgcag gnggctcagc ctntggcctt tg 412
```

<210> 559
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R88209

<220>
 <221> unsure
 <222> (1) .. (380)
 <223> n = a or c or g or t

```
<400> 559
acatcagtcg gaaaattcca gaaaatggaa agtactccat catacagcaa agtaaatacaa 60
tggttggttg aagagcagag agaaaaactt tataaaggct ccaagtaaat acaaagggtga 120
tagattagat aaattcatta tggngactct gatgatgggt tcacgggatt ataataaaaat 180
tcaagactta tcctacagct caaatatgtg tactttattg gatgtcattt atatctttat 240
tttattttta agatggggtc tcaactctat acccgggctg gactgcagcg ttgcaatcct 300
aggctcactg caacctccgn ctcccgggnt caagcaatcc tcccacatca ctaagggncca 360
gggtacatgc cncctnccg 380
```

<210> 560
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R89840

<220>
 <221> unsure
 <222> (1) .. (379)
 <223> n = a or c or g or t

```
<400> 560
ttaaatTTTta ttatagtaac aaagtgacta tttttaataa taaaagcaga gtgcctgtag 60
gaagtggatg gccctatctc aggccaagtc tccttagtgt ttcagacctt ggctgaccag 120
aatagtcttc tagaatgtaa catTTtatcca ccaggngtca ttattttacca atctgacaag 180
ccactgggct gtctccgngc attcaatggg tggaatcaag gctacagacc agantaggag 240
atgaatgaaa ntagatttag aaaagggcgt tgtggctgga atgcagcttg cagtgtggga 300
gggcagggnt gggagggtta agagggctct ttgaaagncc agtntcactt tcttgatcca 360
agttttcttaa gctgatact 379
```

<210> 561
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R91484

<220>
 <221> unsure
 <222> (1)..(378)
 <223> n = a or c or g or t

<400> 561
 tcaaatgtca gatttcttta ttaaaatgtg cacattatag tttactttaa tacaaaatgt 60
 tcactttcct tgcaggtaag aaatttcact gacatttcca tgtcaattag cttcttttta 120
 ataaaaatcc ttccactgaa aataaatang catttaantt actgaactat tatattcatt 180
 agtctcaata cctcttataa tacttataaac ttgngaaaat agactctaaa catngcctaa 240
 nggngggcat ccagctctga ggcaggccac acaagggtgtg tctgaggatg gggccatatg 300
 actccggggg ggccacctcc acggacgggc ccagcccccac cgacggntct gctggaaaat 360
 cccggcccct caggcggg 378

<210> 562
 <211> 223
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R93908

<220>
 <221> unsure
 <222> (1)..(223)
 <223> n = a or c or g or t

<400> 562
 catatatnna atantaaaaa tcctgggagg cattgcactg taatagtaag tctgcccac 60
 caggntcatg catgtctttt ctttcattca agtcttattt tataatctttc agtaaatttt 120
 catatagatc ttgtgaatcg aattatatttt acatttcaaa ttcaactaac aattattaat 180
 aganaatgaa aacattgatt tttttcaata tttattttgt gtc 223

<210> 563
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R96924

<220>
 <221> unsure
 <222> (1)..(334)
 <223> n = a or c or g or t

<400> 563
 agtaaaacttt attngggaga tgggggtgaat ccatcactgg ttactggaac cctgagtctg 60
 cattttctcc tcaggaaggc ggtctgaaat ggagtgggct gtgtttggca agggttgtag 120
 tggtttgga tctctcacct gcttggtcc cgagctgggc ctcaggctgn tctccccaga 180
 gtaaatgccc gggatcattg aggaagcgtt ggctgcgctg ggcattgtag ggcaggctctg 240
 tacgggtccag cgctgtcccc tgcagcgtct ctgggcgctg ggggtgcagggt naggcccngg 300
 acgaggaggg aagagcagcc tcgacagaga gtcc 334

<210> 564
 <211> 510

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R98442

<220>

<221> unsure

<222> (1)..(510)

<223> n = a or c or g or t

<400> 564

```
gtactcatta atccccctcct caatTTTTtaA cagaattata aaagcaaagt caaaagggtcc 60
ttcaggatga ctgggagggt tcctaggcta actttttgcat ttgaaaatgg aaaaaataaa 120
ttacttgata tttgtgataa gactaagatt tcttaaaaagt ctgcacatca atatatattacc 180
tgggcttagg aggggtgaggg cacagtatcc atctgcaccc tctcctcgta ttttttataaa 240
acaggcaaaa tatgtaagaa aaggctgggtg cacgttggaa gacagagcgt gcctgtctat 300
gccagtgtctg ctgtgccctg cagcctgggn aggatgggag tcggatgctg gggcctcatg 360
nccacttagg gccaataaca tactcaagac tctacagccc tttcaccagc aaagtatgnc 420
ctgaggggaa ccactgggtg ttgggagttg aaggcacaca aagcaggggc taaagggcaa 480
ttgggggtttc acggtgcagg cgccttgagg                                     510
```

<210> 565

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R99092

<220>

<221> unsure

<222> (1)..(386)

<223> n = a or c or g or t

<400> 565

```
tgtagagacg ttttgccctg ttgcccaggc tggtttcgac ctgctgtgct caagggatct 60
gcccaccttg gcctcccaaa gtccctaggat tacaggcctg agctactgcg cccaacccat 120
ttattttattn ctgttttagt tgcatttgct ttaggagtct tagccatgaa ttctttgcct 180
aggccaatgt ccagaggagt ttctcctagg ttatatctta gaatttttat ggtttcagg 240
cttaggttta agtcttttat ccatcttgag tttatttttg tgtaaagtga gagacaggga 300
ttcagtttca ttcttctaca tgttggtatc cagttttccc agcaccattt attaaatagg 360
ggtgtccttg cctcaattta tggttt                                     386
```

<210> 566

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S45630

<400> 566

```
gacccctcac actcacctag ccaccatgga catcgccatc caccacccct ggatccgccg 60
ccccctcttt cctttccact ccccagccg cctctttgac cagttcttcg gagagcacct 120
gttggagctct gatcttttcc cgacgtctac ttccctgagt cccttctacc ttccggccacc 180
```

```

ctccttcctg cgggcaccca gctgggttga cactggactc tcagagatgc gcctggagaa 240
ggacagggttc tctgtcaacc tggatgtgaa gcacttctcc ccagagggaac tcaaagttaa 300
ggtgttggga gatgtgattg aggtgcatgg aaaacatgaa gagcgccagg atgaacatgg 360
tttcatctcc agggagttcc acaggaaata ccggatccca gctgatgtag accctctcac 420
cattacttca tccctgtcat ctgatggggt cctcactgtg aatggaccaa ggaaacaggt 480
ctctggccct gagcgcacca tttccatcac ccgtgaagag aagcctgctg tcaccgcagc 540
ccccaagaaa tagatgccct ttcttgaatt gcatttttta aaacaagaaa gtttccccac 600
cagtgaatga aagtcttgtg actagtgtg aagcttatta atgctaaggg caggcccaa 660
ttatcaagct aataaaatat cattcagcaa c
691

```

<210> 567

<211> 1398

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S59049

<400> 567

```

tagatggcaa cctccctatc tgcccgagg tcatagaggc gacacgtagc gtcattctgac 60
cctgaagcaa aggcattctc actccaaagt tagacaaaat gccagggaatg ttcttctctg 120
ctaaccctaaa ggaattgaaa ggaaccactc attcacttct agacgacaaa atgcaaaaaa 180
ggaggccaaa gacttttggg atggatatga aagcatacct gagatctatg atcccatc 240
tggaatctgg aatgaaatct tccaagtcca aggatgtact ttctgctgct gaagtaatgc 300
aatggtctca atctctggaa aaacttcttg ccaaccaaac tggtcaaaat gtctttggaa 360
gtttcctaaa gtctgaattc agtgaggaga atattgagtt ctggctggct tgtgaagact 420
ataagaaaac agagtctgat cttttgccct gtaaagcaga agagatatat aaagcatttg 480
tgcattcaga tgctgctaaa caaatcaata ttgacttccg cactcgagaa tctacagcca 540
agaagattaa agcaccaacc cccacgtgtt ttgatgaagc acaaaaagtc atatatactc 600
ttatggaaaa ggactcttat cccagggtcc tcaaatcaga tatttactta aatcttctaa 660
atgacctgca ggctaatagc cttaaagtgc tggtccttgg ctgaagggaa ttaacagata 720
gtatcaaggc acgaaggaat gtgccagtat ggctccctgg gtgaacagct tggccttttt 780
tggtgtctt gacaggccaa gaagaacaaa tgactcagaa tggattaaca tgaaagttaa 840
ccaggcgcag agttgaagaa gcataagcaa gacaaaaaca gagagaccgc agaaggagga 900
agatactgtg gtactgtcat aaaaaacagt ggagctctgt attagaaagc cctcagaac 960
tggaaggcc aggttaactct agttacacag aaactgtgac taaagtctat gaaactgatt 1020
acaacaggct gtaagaatca aagtcaactg acatctatgc tacataattat tatatagttt 1080
gtactgagct attgaagtcc catlaactta aagtatatgt ttccaaattg ccattgctac 1140
tattgtttgt cgtgttattt tattttattg tttttgactt tggagagat gaactgtgta 1200
tttaacttaa ggtattgtct ttaaaaccag ggatcagaat atatttgtaa gttaaatacat 1260
tggtgctaata aataaatgtg gatattgtat taaaatatat agaagcaatt tctgtttaca 1320
tgtccttgct acttttaaaa acttgcattt attcctcaga ttttaaaaat aaataaataa 1380
ttcatttaaa aaaaaaaaa
1398

```

<210> 568

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S81914

<400> 568

```

acactcgtc ggctcaccat gtgtcactct cgcagctgcc acccgaccat gaccatcctg 60
caggccccga ccccgcccc ctccaccatc ccgggacccc ggcggggctc cggctcctgag 120
atcttcacct tcgacctct cccggagccc gcagcggccc ctgccgggcg cccagcggc 180

```

```

tctcgcgggc accgaaagcg cagccgcagg gttctctacc ctcgagtggc cgggcgccag 240
ctgccagtcg aggaaccgaa cccagccaaa aggccttctct ttctgctgct caccatcgtc 300
ttctgccaga tcctgatggc tgaagagggg gtgcgggcgc ccctgcctcc agaggacgcc 360
cctaaccgcg catccctggc gccaccccct gtgtcccccg tcctcgagcc ctttaatctg 420
acttcggagc cctcggacta cgctctggac ctacgactt tcctccagca acacccggcc 480
gccttctaac tgtgactccc cgcactcccc aaaaagaatc cgaaaaacca caaagaaaca 540
ccaggcgtac ctggtgcgcg agagcgtatc cccaactggg acttccgagg caacttgaac 600
tcagaacact acagcggaga cgccaccggt tgcttgaggc gggaccgagg cgcacagaga 660
ccgaggcgca tagagaccga gcacagccca gctgggctag gcccggtggg aaggagagcg 720
tcgttaattt atttcttatt gctcctaatt aatatttata tgtatttatg tacgtcctcc 780
taggtgatga gatgtgtacg taatatttat tttaacttat gcaaggggtg gagatgttcc 840
ccctgctgta aatgcagggtc tcttggtatt tattgagctt tgtgggactg gtggaagcag 900
gacacctgga actgcggcaa agtaggagaa gaaatgggga ggactcgggt gggggaggac 960
gtccccgctg ggatgaagtc tgggtggggg tcgtaagttt aggaggtgac tgcattctcc 1020
agcattctca actccgtctg tctactgtgt gagacttcgg cggaccatta ggaatgagat 1080
ccgtgagatc cttccatctt cttgaagtcg ctttagggg ggctgcgagg tagaggggtg 1140
ggggttggtg ggctgtcacg gagcgactgt cgagatcgcc tagtatgttc tgtgaacaca 1200
aataaaattg atttactgtc tgc
1223

```

<210> 569

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T03229

<400> 569

```

ggtgatcttt gtggcattct ctgtatttcc tgaatctgaa tgttgtcctg ccttgctaga 60
ttgggggaagt tctcctggat aatatcctgc agagtgtttt ccagctcggg tccattctgc 120
ccatcacttt caggtacacc aatcagacgt agatttggtc ttctctcata gtcccatatt 180
tcttgagggc tttattcggt tcttggtatc cttttttcct ctaaaacttt tccttctcac 240
ttcaatttca atttaatttc aaccttcaaa tcaactgata cccctttctt
290

```

<210> 570

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T03593

<220>

<221> unsure

<222> (1) .. (253)

<223> n = a or c or g or t

<400> 570

```

cgngcaaaag tgtttatttt tctccttcag atatacantc tattggggnt tccgtgccac 60
tgaccaccat gtacaaggaa gggnttcaca ggcaaggggg acaggtgagg gcagcccca 120
cttcactcaa ggaacagggc aagggggccc agtacagaga acagaaatct cttacgacag 180
catcgtgccc tggcaganga ttctgcatan tcacctagaa atttcaattc taactgnntt 240
gatggaataa tag
253

```

<210> 571

<211> 71

<212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T10695

<400> 571
 ttttttttttc agctgggcta cagggtttatt ctggcactgg aggtgaaagg gggctggtgt 60
 ggccagcacc g 71

<210> 572
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T15409

<220>
 <221> unsure
 <222> (1)..(255)
 <223> n = a or c or g or t

<400> 572
 ttttattgaa agttgaaaag tgaacagtta aataagtgac accttaaaat tgtgtagcga 60
 aatgacagaa aatatgcata taactactat acaggtgcta tgcagaaacc cctactggga 120
 aatccatttn attngttcga actgcggatt tttnaacgta ttcaaccagc tgaattgaac 180
 gatttcagtg nacacggatt tacttttagcg tattcagcag ctagatttca gcttccacan 240
 ngtgcgtnac tgtgc 255

<210> 573
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T15423

<220>
 <221> unsure
 <222> (1)..(268)
 <223> n = a or c or g or t

<400> 573
 tttatttcat tatcagtctt acaggttgct gaggttgggc aaagccaggg tagtaactta 60
 aatccaaagc acttttgtgg agggacaacc cgtttagcaa ggccctgtta ctgaacagag 120
 ggcagtgggg ggcaccccag ggaccacagc acacagacta gtgttagaaa ccccttccca 180
 gaagcaaccg gtgggacttg gcccttacca gccaggggtc tactccattg ggtcttgggg 240
 cccaccaacc cctnttagag gnggnccc 268

<210> 574
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T15850

<220>

<221> unsure

<222> (1) .. (246)

<223> n = a or c or g or t

<400> 574

```
aggaggggtg cgtttatttag acaaacgctg ggagacaggc ctggtgggga cctggctggg 60
ggatgatgca gcccgcaatg gctgctgctt cgtacttggc ttgccccgga ccacagactc 120
gtaacggtaa cccctaactt ttcagggggc tggnacccgc ccctgccagg gtccacacgc 180
agagttatgg cgggnccacc cccacaggtg cagctctatc tcccacctnt tgcacagaga 240
tataag                                           246
```

<210> 575

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T16282

<220>

<221> unsure

<222> (1) .. (311)

<223> n = a or c or g or t

<400> 575

```
aagctcagag tgacttttaa tatgccaatc aatgttaata aaacacaagt caaagacaag 60
tgcaaacatg ttttagacca aaattaatga gaaaacagac aatttttttc aacatctgtt 120
agccagtatt attagtcaaa tggctaatac cagataaaat atattttgtg aaaaacttgg 180
aatgtcagan gtcattcttg catttcaaac agctatgtac agtatcacga agatcggttt 240
atatacacia atattgaaga gaaaaaccgg gcaaaacatt taaaaacaga ctaataatac 300
aatcaagtat a                                           311
```

<210> 576

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T17428

<220>

<221> unsure

<222> (1) .. (250)

<223> n = a or c or g or t

<400> 576

```
gctgtgcagt agtatttatt gttacagtgt taaaattcac tctcggggaa gcgatttggg 60
gccacggccc tagaaactgc atctttgttc agagccaacc catttcctct gcagccacaa 120
aatgcctttg tgtntcaggg ctcgggagat tctcctcgnt ggccagccat tggcaagaat 180
gccagactca gaggttgcca ttgccacag gctttntnct cctttccttt cacagcagga 240
agagccctcc                                           250
```

<210> 577

<211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23468

<400> 577
 ttgccaatt atctccatgt ttattttaaat atttggctct aaaggaagca atcattcctt 60
 tatacttctt taaatttagt attgacattt ttattttggg aaaggaggtc tttttttttt 120
 ttaacatgga tacaggaaaa gaaaactctc caataaaaaat attgtctaaa aagtttggtt 180
 tggctgcatg atttactaaa tatgtacaat ttcaattcac agcgaaggta acaaagattt 240
 aaacagccaa catcacaat gtctcaagtt ctaaaaaaaa atcactgtgc acagtttaac 300
 aatttaatt 309

<210> 578
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23490

<220>
 <221> unsure
 <222> (1)..(299)
 <223> n = a or c or g or t

<400> 578
 ttccagggtt gacaggtttt attccacccc cttccatccc catggccacc ccaggcagga 60
 ggagacaggt gtgctggagt ctggctcactt tggggcccg cgtgggcaga gcccactggg 120
 ttacattct ctgtgggcag gtgtggacac cagagggctg gggcaggagg agcgtgggag 180
 cgagcggncg acccccgtct ctggcccggc ccctgggtaa acgccgactc agatgcctga 240
 aacagacctg ggccgagcaa ggaaggttga tggattttcc acccagacag aaattcaaa 299

<210> 579
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23622

<400> 579
 ttatatagagg agactgaaaa agataattta ttccatcaga ggcatacaca ttacagatta 60
 cagacatttg caagtaaata atatgcaggg ttagagcgct gcgttttaac atttaacatt 120
 catgagtaaa cagagatggc cgggtgggtaa atatcttgcc aagggtgggtc cttgtattaa 180
 gccttttgag tctaagatga caaatcccta ggggtcaggt ggtttttccc gcacgaactc 240
 ttgtcaatga gaaatccctc agcccccttt gtcttgggtc tcacagctcc agaaggtga 299

<210> 580
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T23935

<400> 580

```

tttatgtata aacaggtacc agttttgatt ttattttaatc atttcataca ttaacataca 60
tgacacatca aaatgagaaa tgcacagttt aaccgttcaa cagctggcct tacttcaaaa 120
gaacactata ttcatattaa acattttacag tctttccatc taactttaca catgtcctaa 180
atcatttttc agcactttctc acatagaagt ctagttttgc tctttaaaat caccatctgt 240
atcaccccta gtagacgcga gggtttcccc aattacatgc tgaagagagc cagccaccac 300
cccacctaa                                     309

```

<210> 581

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T25732

<220>

<221> unsure

<222> (1)..(128)

<223> n = a or c or g or t

<400> 581

```

ctggcttttc ctttcttctt atttttattg ctcccaaag tccactcatc gtcactgtca 60
gacgtctccg agtctgacga ggctgcaggc tgactcacag gcnctcctt cnnctcagag 120
tcactgcg                                     128

```

<210> 582

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T32113

<220>

<221> unsure

<222> (1)..(207)

<223> n = a or c or g or t

<400> 582

```

ctggacagcg ggcagcacca ggcgggcgac agtgtcttcc ttctgcagga gcagcgcgng 60
gctctccacc acctcctctc catccttggg ccagcgcacc tntgcccagg gccggcatag 120
ctcacaggtc agcaccacac gctccaggcg cacggctgcc acatacacct tgccgctggg 180
atacacgatc cagaggaga cgtctgt                                     207

```

<210> 583

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T33263

<220>

<221> unsure
 <222> (1)..(308)
 <223> n = a or c or g or t

<400> 583
 gttccttttaa aggtttatatt ctggcacaata aaaaaaata acttatgtgg ttagataaat 60
 taatgtatgt nattagatac gacacagggc agagctgaac gttcctgttt tcttctggnt 120
 cttgaagggtt ggtgagagggc cgctgaatga gacccagcct cgtgttttgt gggatgaaga 180
 gatgcagaca aagtgactca ggtacactga tgctccctgg agggctggga ggtgggctca 240
 gaggaagagg ccgaatccaa acctttttta ttgaaaagaa atagctcttg tttgtagcat 300
 ttaaaaaga 308

<210> 584
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T40895

<400> 584
 taatggtagc tatcaattta ttaactgggtt actgcggcaa tatatataat tataaaatca 60
 ccatcaatcc tttcattcat acgttaacac atatcactgg tttaattcat tgaaggcaaa 120
 tacaagtttt tcccttactt tccctccaag attccactta ggctgggttac cccaaacgta 180
 atggagaaac attaaatgtc actttttaa cactttttaa ccagtcttta attttcaatt 240
 caggtgtgag gcacatatat acacacaaac a 271

<210> 585
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T40995

<400> 585
 taatgggttaa ggaggaaggt ttattggctt caattcccca gttgatgttc aacactttat 60
 ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120
 tctttggaaa gctcccacgt gtaatttatt tttaacatct ctgaagagca gaattaatga 180
 tatttcctag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240
 gaaggcatct gtattgtttc aaaacgtcag gacggtacgg gatactcttt ccagagcgac 300
 gaggggtcaaa tcccttcatt tatttttttc aaaagggtaa aac 343

<210> 586
 <211> 351
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T49061

<220>
 <221> unsure
 <222> (1)..(351)
 <223> n = a or c or g or t

<400> 586
 ggaccaaaaga acttttatatt tatttttaa atcaaagtaa cacaaagaac tagttcaata 60
 tacagtacac ttcctactct tcacagagaa ctgaaatctt ctataaagac atttatactt 120
 aggaaacatc agacaaccaa agtatgtata aaactcacaa gatatttttac acacagttca 180
 caataattaa ttctgatatt ttaggnnttt tctgtcattg ctttttaaagc atccttaatt 240
 taaaaacaaa aattattatt tgaggactgg aaaacaggtg gcaaaggcat ttctactttt 300
 aattatacac tggtaaattc ccccttaatc caaacattt tacttncaca t 351

<210> 587
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T49602

<220>
 <221> unsure
 <222> (1)..(423)
 <223> n = a or c or g or t

<400> 587
 tgaatattca agaaagggtga agttttaattt gcatataggc ataacctaca cctcacttgg 60
 caagtgttag gccacagcac aaacccctct gtccaatcac aaatgtccac aaatttgcaa 120
 agtaactgga cacgaacgat atgcttctca aactcacaca catattcgtc catcacacac 180
 aactcaaat gataaagaan tacattgaaa tcctctacaa aagagatctg aggacagtan 240
 tcagatgacc tcatgtgcgg acagcctntt gcagtttaca gtctaattcca tttggtcctc 300
 acantagccc tgtgaggata agcagcacag ggattactnt tcacaccgtt ttgcaggatg 360
 agggaaactg aggctcaggg gatgtgtaaa caccagccta aggttttcca gttgggagac 420
 tgg 423

<210> 588
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T53590

<220>
 <221> unsure
 <222> (1)..(309)
 <223> n = a or c or g or t

<400> 588
 ttnggtatgt ggttcagctn tttattntct ccatgggggtg ggtgaagagg agtggcccag 60
 ctgagctgag gaagggtgacc actgagaacc cattcaacct gctgagcagc ttgggcagaa 120
 aggagcagga cttgggacag acgactgaag atgcagagac cccatggggc ccacccctgg 180
 gccttcctcc catntggctg caggcatcct ntntnatcan tgctggggtt cttcctggtt 240
 aaagggccan aaggtnaagg agatgggntt ttcangcatc agaattgaggt tnaatttggg 300
 gccacatc 309

<210> 589
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T56281

<220>

<221> unsure

<222> (1) .. (470)

<223> n = a or c or g or t

<400> 589

```
caggtnatn ttntttaatt atcactcaca tatttcacag gaaaaggant ntagcaaata 60
ggtaagggtg gtntaaaaaa aaaatccagg ttntacatg tctctctgtt tacatctggg 120
agaaagggtt tcctggcatc agtcgcagca gctgcacttc tctgacgccc ctttgcaaac 180
acagccctgg gcacacttgc tacagcccac ggggaggcag gagcagcagc tnttnttgca 240
ggaggggtgca ttgcnctct ttgcaacttgc aggggaaccag cgcaggggtgc agggagacac 300
cagcggggcgc agggagcagt tgggggggncc cattgcaagc cggagggaga gactgggact 360
tttcccaagg agagaagcga aggaagccag tggggggcag ctctgtgccg anttccttca 420
gccccggggg gntcccccta gttctaggag cggnccccac cgggtgggat 470
```

<210> 590

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62857

<220>

<221> unsure

<222> (1) .. (439)

<223> n = a or c or g or t

<400> 590

```
caatctnaaa aaaatatattt cattatgttt attataaaaa tataaatggt tccactacaa 60
atcattttac attagtaaga ggccatctac attgtacaac ataaactgag taatattttg 120
aaaagacaag tttaaagtaa acacatatgt ccaatcatat cacatttata catggcttga 180
ttgatattta gcacagcata aactgagtga gttaccagaa ataaataata tatgtaaatc 240
aaatttaaga tacaaaacag ntcatatggg tacataacat catgtaggga gttgtggcct 300
ttatgtttac tgaaagtcaa tgcagttccc tgtaccaaag ggatggccgt aggcattcta 360
ggtaccctct nctccctggg ttaggggaatc cgtacactta tggtttacca tatgggtccg 420
gggtagggan ttgtggtaa 439
```

<210> 591

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62873

<220>

<221> unsure

<222> (1) .. (450)

<223> n = a or c or g or t

<400> 591

```

tttttnacga gacagagctc agttctgtcg cccagactgg aatgcagtgg tatgatcttg 60
gctcactgca gcctcgactt ctcggttaca agcaattctc ccacctcagc ccctggngta 120
gctgggacta caggagtata ccaccatgcc caactcgttt ttatatTTTT atagaaatgg 180
tntctcacca tattaccag gctggtctca aactcctggg ctcaagcgat ccattctgcct 240
gccttgggtct cccaaagtgc tgggnttaca ggtgtgatcc tctgagtctg gccaatTTTT 300
atttaaagat atTTTTTaaa ttggactgga cgcggtggct catgcctggg aattaatccc 360
agcaactttg gggaggccaa ggcgggatgg ctttagacca gcctggggta acatggggcaa 420
gaccccntct ctaaaaaacc aaaanaaggg                                450

```

<210> 592

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62918

<220>

<221> unsure

<222> (1)..(237)

<223> n = a or c or g or t

<400> 592

```

TTTTTTtaag aatcttctgg gcctctttat taagagccct ctgccttncc aggggagggga 60
agcaaactct tcagggcccc cagagttcct gcaccccata tcatgggtga gnctaccagc 120
cacagagcca cccgtcaccg tggagaggct taagntgcac tcagagctcc ccccgggcat 180
gccgaatgta gtgttgatgc agccctgctt cctgagcaaa gtcttgaccg cactctg 237

```

<210> 593

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T64211

<220>

<221> unsure

<222> (1)..(301)

<223> n = a or c or g or t

<400> 593

```

TTTTTTnntt tgtggatttt ccttttaatg caaaatgttg caatacaaaa caatgtggag 60
aaagcctggt cctcaggcac tgaagggagg agtgaggaag agaggacaga gctggacgtc 120
tcctcctatt tctccctccc caagtcactc tgaggggaag aacactgctg cctgctccct 180
gggcctgccg catacaaggt tagagccctg ggtctggggc atccttagcc tgaaatttgt 240
tgacatgggg caggagagca ggagggaaca ttgagggttt tgactcttcg ggctctaaaa 300
g                                                                301

```

<210> 594

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T64223

<220>

<221> unsure

<222> (1)..(290)

<223> n = a or c or g or t

<400> 594

```

gaatttnana gcattaagtg cattttatatt tattgtatta gcacataaat tgatgaagcc 60
acatgggtgaa aatctgtgag aaactgaagg ttttcatttg ttttctgtgc cccactgtat 120
atcacctttc aaaataatgc tttctgctgg gtccaaactt cacttgagc aaagaaagg 180
agttaaaagg tttcacttaa agctacttcg ttatgggtgc tactgaaagt aaggtaaaag 240
caaacagcag taacatgggg actttaantg aggcaagaga agggattcag 290

```

<210> 595

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T67053

<220>

<221> unsure

<222> (1)..(445)

<223> n = a or c or g or t

<400> 595

```

ttctggttgt caatgaggat atttattggg gtttcatgag tgcagggaga agggctggat 60
gacttgggat ggggagagag acccctcccc tgggatccct gcagctccag ggtncogtgg 120
gtnggggttag agttgggaac ctatgaacat tctntagggg ccactntctt ctccacgggtg 180
ctcccttcat gcgtgacctg gcanctntag cttctgtggg acttccactg ctcgggcgctc 240
aggetcaggt agctgctggc cgcgctacttn ttgttgctct gtttggaggg tttgggtggc 300
tccactcccn ccttnacggg gctgccatct gccttccagg gcactntcac agctcccggg 360
tagaagtcac tgatcagaca cactagtgtg gccttggttg cttggagctc ctccagaggan 420
ggcggaaca gagttacagt gggga 445

```

<210> 596

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T67105

<220>

<221> unsure

<222> (1)..(444)

<223> n = a or c or g or t

<400> 596

```

ttancaaaca tttattgatt gcacaatgaa acaatctctc ctttcagata tatacatcag 60
tttactaaaa gagtagatac aaaggtcagg aagtaattac aatgcaatgt gataagttta 120
ataatatagg tttgacagca tacagnggag ggggtgattg ggtttnaggt gatgggtggg 180
tattggccag gtaatatctc atggaccaag tgatgacaac atagggtttc acagatggat 240
aagagtcttc caagnttacc agggggaaat atacatgtgt ggggtgcaaa acagagtatg 300
gcatttctctg anagtcagan nttnatataa gagtataaag tncaagagaa tgggataagt 360

```

agctagggag gtaaggccag acaggntagg cnagtcctag gggcctttca ggccatgggn 420
agganaacgt ggggcttcac ccta 444

<210> 597
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T68873

<220>
<221> unsure
<222> (1)..(244)
<223> n = a or c or g or t

<400> 597
nttttttttt ttttcaagtc aaaactgttt tattgtcngt ttacatatatt aatagaaaaa 60
ggaatgtatgc aaatgctcag ggttgatatga aaaaaaaatc caggtttgctg caggttgctc 120
tgtttacatc tgggagcagg gctgtcccca catcaggcac agcagctgca cttctccgac 180
gcccctttgc agacgcagcc ctgggacact tggcacagcc atggnagacc aggagcagca 240
gctc 244

<210> 598
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T73433

<220>
<221> unsure
<222> (1)..(346)
<223> n = a or c or g or t

<400> 598
gggagaaata accagctatt gttccgcatt caaacagaaa ttcagggtgct tgcattctttc 60
acgtattgtt caaaaatcac aagcatctgt ggaaaaaac taaggattta cagacactac 120
acggagggtca tgttcttaca ttcaagacac taaatacaaaa ccgangcant gcaaaattgt 180
atactttaat tttaaaaccc antttttgtt ctcaacttga aaagggnaac acttttttgt 240
ttcacaaaca agctgggtcg ggttgggant tctttttggg aacagtaggt cccgcgctaa 300
aactgggtt cttgcctccc caccctcctt ctctaaaatn aaccba 346

<210> 599
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T78398

<220>
<221> unsure
<222> (1)..(475)
<223> n = a or c or g or t

```

<400> 599
agtattgggt gtagttttat ctgtcctttt tttattcctt taatttataa aaaaaaaacc 60
ttttaaactag gcaaaattac tttcctttta acaaaaaacca cattttcatg ccttctgata 120
actttttctta aacaaaaaac atgtcctact tcccttatac actttcgatg gagaattttt 180
tctcttgat ttagtaattt caattatata catttattac aatgttaact tttaggtaac 240
tcttattttt aggtgaaaaa ccttgggagg gtaggccgtt ttaattatgg taccaggatg 300
gcaaagggtcc aggaacaagg ggaccaagcg ggggaggctg ggcctagggt cataggcctt 360
aaaaacttta aatcttaagg gataaagggg nggggggnac ggtggggcct cacggnctgg 420
ttaatcccgg tgggttgggg gaggggagag tgggggtggg gntcacnggg ggtca 475

```

```

<210> 600
<211> 445
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. T79768

```

```

<220>
<221> unsure
<222> (1)..(445)
<223> n = a or c or g or t

```

```

<400> 600
ttttaagaca actacaaact ttcaatattg gaggtagctg cagagatcat ggtaactgac 60
tttttcacag atgaggaatt taaggccag aggaaggtaa tatcagaatt agtgacctcc 120
gcaccacagca cacacacagg acaggggaaa ggggtgggaga gatgcatgca ctgggaccct 180
gggatatagatt caagataccc ttgctggggg aggggtggggc tggccgttag ttctaactca 240
gtcttctcag tgccacctcc agcccctgtg ggtctttatg ggggccaac tctttatcca 300
tctttccttg ggggtgatggg agggcatggt cgccagcatt aaggatcttc ccagncacag 360
gatggcacgg ccccgggcct tctttgatat tattaggtgg gcttctgggg gntttcttcc 420
ctgccgncct tccacaactc agggc 445

```

```

<210> 601
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. T85532

```

```

<220>
<221> unsure
<222> (1)..(408)
<223> n = a or c or g or t

```

```

<400> 601
atcgcttgag gccacgagtt caagatgagg ttggcaacat agtaagacct catcactaca 60
atTTTTTTTT ttttaaatta gtgaagtgtg gtactgcaca cccgaagtcc cagctacttg 120
ggaggctgag gcaggaggat tgcttaagcc cagaaatttg aggctgcagt gagccatgat 180
tgcaccacta tgctccagag tctaggcaac agagtgcagac cttatctctt taaaacaaac 240
aagaatgaag ttaggtatct gtttatttgt ttgagccatt tgtatttcct tttttgtagg 300
actgtcctgt ttnaaacgtt aaaatcactg ctgtnggttt tngattttta catctcagct 360
gggatgggca ccaattaaat tatttnaggc cctggtttat tgnaaaat 408

```

<210> 602
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T86148

<220>
 <221> unsure
 <222> (1)..(459)
 <223> n = a or c or g or t

<400> 602
 atttttatat gaagggttttc tgggtgaaatc tttttaagcag ggaggaaaat ccaataaaatt 60
 ttttttaaaaa ggttttagcta ttccccaatg ctattttaata caattgaggt taggacgtta 120
 agtcttatca gactgtgtac tggagccccg tgtcatcagc aaaagccgtg tgagtcaaca 180
 ggtgtgaaga ctcaagatgc gcacacagac gctgtccgtg gttttatggg gaatgatgag 240
 ggctgggtcag ttctcctcat gacaaaagtc aaaccgactt ccctgtgttg cgtgtgaagc 300
 ttgtttagtg acagaggagg aaacgcaggg ttctgccctg gggagnatga cagnccacag 360
 cgcttggggg nccgtcaggg ctttcgtgtn cagtttagcgt ttcacaaact ngaggaggag 420
 tattaanaana gcccaaacc caaagtttct ttttttcaa 459

<210> 603
 <211> 357
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T89160

<220>
 <221> unsure
 <222> (1)..(357)
 <223> n = a or c or g or t

<400> 603
 atgctgctat gacagaatac ccaagactga gtaatttata aagaaaagta atttattttct 60
 acagtgccag ggtctgggaa ggtgctggta tctggtgagg gctttcttgc tgcattcattc 120
 catggcagaa agtgagaggg tgagagaggg acaaggagg ggaactgaac tcattccttt 180
 atcagtaacc cactcctgca ataactaatc cactcccaca ataacaacat taatctattc 240
 atgagggcag agctntcatg acctagtcac ttcttaaagg ttctacctta actccattgc 300
 tttgggggat taaatttcaa catattaaac ccttggggagg gacacattcc aaaccac 357

<210> 604
 <211> 494
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T89703

<220>
 <221> unsure
 <222> (1)..(494)
 <223> n = a or c or g or t

<400> 604

```

gtagaaaaca aaaatggaac atttattngc aactcaaata ctacgcatat acagtaagaa 60
nttaaatata aacacagcaa gttccacccc agtcctatatt gtccaaggct gcatgggtcaa 120
atggaatctt gaagagaaca cctgggnaac agagcanctn tcagcgacgt ctccgggtctg 180
gactttctgct gcgtcttcgg ccacctctcc ncttgccctt tgggtggacc cgaacaaaac 240
accagtcaac ggtgatgggc tgtcccatca aatcctgggc cattgagtcc ctccatagca 300
gcctggggct tccttgatg tttcataattc agctaggagt ataccctgt cagatatcct 360
gttcgcctgt cgagggtgag gatgaatgtt tttaatttcc ccatattctg cggaatttgt 420
cgtgtatgtt ttctgcgna ggcttcctca tggacttcca gttacaaaga gantccagnc 480
ttcagcagag cgtt 494

```

<210> 605

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T90190

<220>

<221> unsure

<222> (1)..(391)

<223> n = a or c or g or t

<400> 605

```

tantnntcca gctcttttat tgagatcagt ggtggctctg aaaagcgtnt ttngggtttt 60
agaagtaggc gttcgctaatt ttcttcttgg gcgcccgttc ttaggcttga caaccttggg 120
cttagcggcc ttggnttcac agccttagca gcacttttgg cagctttctt gggcttcgca 180
accttggcct tctttgggct cttagcactt tcttggttac agtggccgcg gcggctntct 240
tcgctttctt cggngtttcc tttagcgtct tcttcggagt tgcgccgcca gccgcccttc 300
ttgggcttct tggctncccc aactggcttc ttaggttttg gtccgccgcg cttttnaacc 360
ntggggcttg gncttccccg gagcttgct t 391

```

<210> 606

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T90619

<220>

<221> unsure

<222> (1)..(483)

<223> n = a or c or g or t

<400> 606

```

gannntnntg ggctcggcgt ggtgggtgaag ctgtagcctc gctcagttag gatctnecatg 60
aggtagtcgg tcaggctccc gccagccagg nccagacgca ggatggcgtg ggggagggcg 120
tcggtacgaa tgggcaccgt gtgggtgacc ccgtctccag agtccatgac aatgccagt 180
gtgcgcccag aggtangagg gacagcacgg cctggatggc acgtacatgg ccgggggtgt 240
gaaggtctca aacataatct gagtcactct ctctctgttg gccttggggg tcagggggggc 300
ctcgggtcagc agcactgggt cttcctccgg ggccacgcgc anttcgtttg tagaagggtg 360
nggtgccaga tctttctcca tgtccgtccc agtttgggtga cgatgccatg cttcaatggg 420
gtantttcag ggtcaggatg ccangtttgc tcttgggcct tcgttcgcca cgtaggggaat 480

```

tct

483

<210> 607

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T90889

<220>

<221> unsure

<222> (1)..(224)

<223> n = a or c or g or t

<400> 607

```

natgaacagt atataatcta atctcttttaa ttttatgtac atgaatataa tgtatgtcaa 60
ctttgtacat gagatacata tagtatttaa acattttact caacaaacaa gaattttacaa 120
tagcaatata actgactaga gggctatcaa cttaataata cttagattag atctgtactt 180
taataggaaa agaatttaat agttttacaat catagaaaca ctgacattta aaa 233

```

<210> 608

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T94447

<220>

<221> unsure

<222> (1)..(305)

<223> n = a or c or g or t

<400> 608

```

ttaattatng atattccccc tcaccgccct cagggancgg gagaagtcac acgaccatag 60
ggagcttgga cttggtggtc gtcacgggtc tggcagacga gggctcttcc aggaacccct 120
tgctagaatc agccctcata caagtgtgct cagagatccc aggagcgatg gcacccctcc 180
gaagtcaacta cccccatatg tctccttggg cttcttcccc ctctctttct ggaacctgac 240
caggcagaac gcagcaactg ncagcaacag cacgcccagg gagcacccca atcagagntc 300
cggcc 305

```

<210> 609

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T95005

<400> 609

```

ctttattgaa aacattgagt gcagaaataa accctgctca tgaatgggaa aattcaattt 60
tacacaggtg ctgattttat ccagactgat ctatagattc agctgggttc cattctacat 120
ctcaaggggt ttttgggggg aatttgacaa gctgattctc aaggttacat ggaagagcaa 180
gggccgagac tagagtttag gagatgattc ccaaaggcac aggggcagaa aaatgaccag 240
tggaaccaca tagaaaaatc aattattgta ttttcaatgg atcactaggc agcagggaaa 300

```

ag

302

<210> 610

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T96171

<220>

<221> unsure

<222> (1)..(352)

<223> n = a or c or g or t

<400> 610

```

tgccatgttg gcaggctagt ctcgaactcc tagcctcaag tgatccacct accttggcct 60
cccaaagtcc tgggattata ggcattgagca ctgtgcccag cccatagatg gcttttatta 120
ccttaaggta tgtcatgagt aaccttttaa ttctccataa aattaattat tgtgtttttt 180
gtttgcttgg ttttctatga cccatcaca aattcaactc caaactctgc accaattttt 240
tttaaaacttt actcaagaat ttagggccac ataaacattc caacaaattt gtcttcgtag 300
ggnaaatctt ttccagagtt tttccccact atggcctaata gcgcagnggt ca 352

```

<210> 611

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T97243

<220>

<221> unsure

<222> (1)..(358)

<223> n = a or c or g or t

<400> 611

```

nngttatnaa gttaaattctc tttaatatcc caatacaaag tactgatgca aaaagacaat 60
gagaaaaaccc aggaagtttg ggggtggggg gtggggagag gttttataaa taaaaaaccc 120
cgagcagctt ttcagaggca gaggagctaa gagaagcagc agtccaaagt gaggaaggga 180
gtgtgtggct cctgggacct gccccttgct ccctcactca cagctgctcg taaacacccc 240
tttcaaaaagg ggctgcaccc tttggatatc tgcttctttc tcttggtccc tggggacggc 300
aactagctct ggcttcaatc ccctacaaaa attcctgaga tcttcggggg accccagc 358

```

<210> 612

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T98019

<220>

<221> unsure

<222> (1)..(348)

<223> n = a or c or g or t

```

<400> 612
ataaaaatagg gctggccana gagcactcac cgtctccctt ttgagttttt cccgcttgng 60
tccaattcca cgagcagccg agctcgctcc aagtcatgcc ggagccgctg ccaggacttg 120
agctgttctt taagggccca gttcttatcc tcagaatctc tctgtagagg caaaacgaag 180
atcagaggat gattagaaag ccagaggaaa ggtcaacagg gagaagagag cccagggaaa 240
ctcagggtcaa gccaaaagag ggagcacagt aatttatttg gtagttgcct caatctgtgt 300
tttccccaag gccttgggaa gaattaaatt cttttggtat tgtntttt 348

```

```

<210> 613
<211> 307
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. T98288

```

```

<220>
<221> unsure
<222> (1)..(307)
<223> n = a or c or g or t

```

```

<400> 613
tgagtcattg gncttgctct gtcactcagg ctgaagtaca gagacacaat catagctcac 60
tgctgtccca acctgctgga ctcaagtgat cctctctctt cagcctcctg agtagctgag 120
gctactggca tgcaccacc ctgataggng ttttttattt tttagggatg gggctcttgct 180
atattgcaca ggccagtcct gaaccctggg gctcaggcaa tccctccacc tcagcctcct 240
gagnaattgg ggactacagg tgtgaaccac ggatgcctgc ctaatttttt tttttttttt 300
gagacag 307

```

```

<210> 614
<211> 2376
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. U02020

```

```

<400> 614
cgcgcgggccc ctgtcctccg gcccgagatg aatcctgcgg cagaagccga gttcaacatc 60
ctcctggcca ccgactccta caagggttact cactataaac aatatccacc caacacaagc 120
aaagtatttatt cctactttga atgccgtgaa aagaagacag aaaactccaa attaagggaag 180
gtgaaatatg aggaaacagt attttatggg ttgcagtaca ttcttaataa gtacttaaaa 240
ggtaaagtag taaccaaaga gaaaatccag gaagccaaag atgtctacaa agaacatttc 300
caagatgatg tctttaatga aaagggatgg aactacattc ttgagaagta tgatgggcat 360
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<223> Genbank Accession No. U19495

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<211> 1303

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U41804

<400> 630

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<211> 1443

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U45955

<400> 631

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<211> 554

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U52969

<400> 632

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<210> 633

<211> 1974

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U53225

<220>

<221> unsure

<222> (1)..(1974)

<223> n = a or c or g or t

<400> 633

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<211> 3025

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U53445

<400> 634

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<211> 2093

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U57316

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<211> 6981

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U60975

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<211> 1366

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U75272

<400> 641

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U78294

<400> 642

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<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U85625

<400> 643

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<211> 3452

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U90552

<400> 644

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<211> 1909

<212> DNA

<213> Homo sapiens

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<223> n = a or c or g or t

<400> 645

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<211> 716

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U96094

<400> 646

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tcccttcaac ccacacggtc tgcaaccaa ctctaattca acctgccaga aggaatgtta 660
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<210> 647

<211> 159

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V00563

<400> 647

ccggtaaacc caccctgtac aacgtgtccc tggatcatgtc cgacacagct ggcacctgct 60
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 ctaaccgtgc aacgggtgag atgtgactca taatagata 159

<210> 648

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V00594

<400> 648

agtcccagcg aacccgcgtg caacctgtcc cgactctagc cgcctcttca gcacgccatg 60
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 aaagagtgc aatgcacttc gtgcaagaaa agctgctgct cctgctgccc tgtgggctgt 180
 gccaaagtgt cccaaggctg catctgcaaa ggggcgtcgg acaagtgcag ctgctgcgcc 240
 tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa acctggattt 300
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 atgataataa aa 372

<210> 649

<211> 3565

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V01512

<400> 649

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 ccgcggcgca gcgaacgagc agtgaccgtg ctctaccca gctctgttc acagcgccca 240
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 aacgcgcagg taaggctggc ttcccgctgc cgccggggccg ggggcttggg gtcgcggagg 480
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aactctagcg tactcttcct gggaatgtgg gggctgggtg ggaagcagcc cgggagatgc 1500
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ttgtttgctt attgttccaa gacattgtca ataaaagcat ttaagttgaa tgcgaccaac 3540
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```

<210> 650

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W02204

<220>

<221> unsure

<222> (1)..(448)

<223> n = a or c or g or t

<400> 650

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ttaaagtaaa ataccattgg gattcacagt ttattgaaat ttaataaaaa ttatttccaa 60
agaatgagaa tcctggggta gcgaggcaat taattaagca attcatctta aaagatggaa 120
tacttggaa accttagcca tcattcaatg ccaaaatgtt tgggtttttt tcatatcaca 180
tccgtcctat cttttcatct tcagtgaatc attcctcatg tttgtaatta aagccatatt 240
taccatcata atctgcagtc acccgagctc attttgctct gaagccagt atattaagct 300

```

```

gttctatttc taacgtgtcc cttaacttga ttctaagtaa aagcagcaag cagtgggtat 360
ttaatatata aactcatcaa attccacata anacatttaa ccacagnntt aaaaactcca 420
gtggccttta cactagctac cntggggag 448

```

```

<210> 651
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. W20486

```

```

<220>
<221> unsure
<222> (1)..(378)
<223> n = a or c or g or t

```

```

<400> 651
tcaagcaaac ggatgatttt aatgaggggt gagaagcact ccgcagtgcg gcaagcggcg 60
ggctnggntc ggggccccagc accggtggga gcggggcttc tctggcctcg cgcgcggggg 120
acnggccctt tcccctccgg ggaacgcgca ggaggcaccg cggccccngg gttggaacaa 180
acgcgtttac tgcaggcaag gcggcgggcn cggggcggct tcaccaggcg aagaggggct 240
tgcgctcctc ttggagaagc tccgcacagg cagttgaagc agcagcagca agtcgcccag 300
gaacttgggg ggcaccacgt cgatgaccag cttgcgcacg cggcccgggc ttgctgtgca 360
aggggggttg cgcgcagg 378

```

```

<210> 652
<211> 687
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. W28214

```

```

<220>
<221> unsure
<222> (1)..(687)
<223> n = a or c or g or t

```

```

<400> 652
ttttcangag ctggcccttt caactcagtt taggggcgca gccagctcnc ttcccaatag 60
ggctctttct gctttccctc tccttgcccc tagatttgta atccatgaaa aagcacaagg 120
tcctggctcc ttgcggtcac attctgggtc tctgtgtttg gtggactctg ctctcactgt 180
tcaccagca ctagcagtac cagatgggtc tgtggagtcc tggggaatgg agagagcaca 240
gtctgactcc ctgccaagta gccaggagtt gacttgccca tgggtccgctg gctttcccac 300
cacttcctac aggatgggat ctaagagact caagagctgg gtttctttca gnactctgta 360
ctgtcccaaa tagnaaacaa ntcacttngt ggccagattt ctgaatggaa atgagaaaatt 420
gaattcagct tgggacttaa ccaggctgac tngntagggg ggnnnnnnncan nnnnnnnntn 480
gntcaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnn 687

```

```

<210> 653
<211> 870
<212> DNA

```


<213> Homo sapiens

<220>

<223> Genbank Accession No. W28548

<220>

<221> unsure

<222> (1)..(870)

<223> n = a or c or g or t

<400> 653

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tctcacacat tcacgcatcc agtcatccac tcagaggcca accagtcaca cattcactca 60
ctcacaaaaa cacagggttg gatgaccatc atgtgccagc ggcataagggt ggggataacc 120
ctgagttcct ggtgcagaaa ataagattct cagtttttga ccttggttg agaaggacct 180
atgaaatcaa gatagacctg gagaatcctc cctgtcccca cccactcagg cacactcagc 240
tcaaccaaga gggaggccca aaccccagtg aagcccaagg ggcagagcca agctgtggat 300
atgtcagagt ttcttgggca tcttctctgc tgctgcctc tttccaatct tggttcagat 360
cagggaagca ggaagtatgg gaagatccct gcatggcccc ttgagggcat cctaattggga 420
cggaattggg gaggtttcta tattttcatg aaatatccta tttngggctc ctngtggttg 480
tggaacttga gtgattctgn agggcaggag cctccagtga ngagttggna gggatcttgg 540
aaaactggnt ttnattttat ttgggtgggt cggaattcag ttgggcttaa ccaggntgac 600
ttgcaaaggg gggnnnnncn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnccc nnnnnnnnnn 870
```

<210> 654

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W31470

<220>

<221> unsure

<222> (1)..(296)

<223> n = a or c or g or t

<400> 654

```
cgggcgacaga gggcgtttat tnggacctgt ccttcccagc cgctgcttgt ccaggttcag 60
cgctctccgc ggggtgaggca aggaanncgn ngagacgcnc gagccggtca ccacaaggtc 120
cgcttgacc cggccgtca cggacgtacc tactggatgc agatgggtcca gggatctggg 180
ggctctggga gagggtgtg tggactgcgg gccagctgg acaaaggcag gggcttcctc 240
agaagctctg ctgggtcacgc aggcgtccgg cccacggctt tcaacagccc tgcaag 296
```

<210> 655

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W33172

<220>

<221> unsure

<222> (1)..(353)

<223> n = a or c or g or t

<400> 655

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ttttttttaga ttggtagagg tggtttatgt gccccatagc caagagaggt gtgcaccaag 60
gaggatatca tcaaattctga caatctggaa agcctttgaa actgttcttt tcctaagcac 120
agtattcagc tgtgtcctct tgaaccata tctatcaggt caacagcttt agccattcc 180
acatgatatt ggctgtgggt ttgtcatata tagctcttat tattttgaga aaccgttcta 240
tcaataccta gtttattgag agtttttaag catgaaaggg ctttttgaaa tttttgggtcg 300
nacgggcctt ttcctggcaa tcctatttga gnataaatcc aagccgggtt ttt 353

```

<210> 656

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W33179

<400> 656

```

ttttttttttt attttcataa cttgcttctg ttgattttttt ttttttgtaa aactttccca 60
agacatttttc agacttaaaa ataaagtcag tgttacaggt gctgggcagc cttcttactt 120
gtacctcaaa cactgggata aaggaggcgg tccagggcaa tgcagtgatg tctgtcaaga 180
cattccccct cccctaaact cagtagcagt tgaggatgac atttcaggct agagagacct 240
aaaatacctc tgttccacct gagagcaagg tggaagttgc atcagctact gcccgaagtg 300
agcttcatct tctgattgtg ggctttggag gaacgagaga actggctctt gggcactgtg 360
gaggggtaca gctttgccac tcaaataatac cttattgtgg gcattcaggg agccagggtc 420
cagagctgca gggctgc 437

```

<210> 657

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W37778

<220>

<221> unsure

<222> (1)..(383)

<223> n = a or c or g or t

<400> 657

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agagggttttt tattcggccg ggagcatcag cagactcgca tcttaagagc cgagctcccc 60
gaaaaagaaa ttcctagccc tttgaaggnt tgacaactct aaggggtcta cgtgaaagag 120
tcataataga tcaagtaagt gtgaggaatg tgactgtggg ctacctacat cagctaacag 180
tacaaaaagt ttacagtgc tttctcacac aatgtctgga atttacagat aacaccagta 240
ngttttgggtc aggggttaat attattatca ttctaaccac cagggccagg tgggtggcgcc 300
aaggtcgtct agctatttat ctttcttctg tttctttcca actttttgct ttctcccttt 360
tctcctgtct tataaactag gga 383

```

<210> 658

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W42778

<400> 658

```

gaaaacaaaa atttattgct tctccttcca aagctttgtg aatttacaaa aaaaaggatg 60
aaagttttaca aactgcttag ttccaactaa gcataagagg tgagaacgta cactgcaggg 120
ccaccagcag cagctgtgca ctogatcggt aaaactggct ccccagact tgtagtgtg 180
tcttcagggg gctgcattcc ttacacgcca cctcttgtga catagggtcat tggccaagcc 240
gctggaatgc tacagagggt tttttgggtt tgagagggtt ttttttggtt tgccttcta 300
ctataaaagc gaaattttca gttcatttct gaaaaataaa ttgggtcaata aattcatttt 360
gttctgcttc tacttttacac aaa                                     383

```

<210> 659

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W44760

<400> 659

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ttttttctgg taacagcatg ttttaatttat tattattgca aaagaacagt ttttctcatg 60
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ggttgagaga agagagaagc agaaaccaa agagaaacag aagtaataat cagttatcac 180
atgatttttta tagtaacaa tagaatatga tgtgcaatag tgcaattttc ctttgctagt 240
ccagcaatgc aagtaagtct taataggaag tccactgtgt tactttttgt atttcgggat 300
ttagttgcgt gcttgccggg ggttcgagtt cctgccagac ttctgactct gagtggaaatc 360
actattgcta gaatcacttt tactgagtc aagatgacga agcttcatat ccagcgcgtt 420
aacttttttta ccgagtcgat ccttccactt ctcagctata gagccttcca ccaaga      476

```

<210> 660

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W45531

<400> 660

```

tttttttttt tttgaaattt gataaatgtt tattgacttg ctgattcaaa aaaacagtgt 60
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caaaatctga gtaatttatc accttttaac atcttcaaca tatttataat ataaatatat 180
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tgacgacaga cttgtgctga tccatcatct ggaactccta aagacctgaa tggctgactg 300
ggattagtga ctactatctg gttttactgg ttttactcta ctaagcccat gattttgtgg 360
ttttaaccaa ttaagaaat tatccccaag cacaataaaa at                                     402

```

<210> 661

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W45664

<220>
 <221> unsure
 <222> (1)..(534)
 <223> n = a or c or g or t

<400> 661
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 gaattacagc ttatgttaga aggttctctt ctcctcgata ccttcatgtt agaagaaaga 180
 ggacagagggc agagctgatg gaatctcata aaataacagc taatgccgtg tgtcaggcac 240
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 atataaaaca gtcctgggag tctgttctt ccccttctt tctctcgtgt cctttggact 360
 gtcttttngc agcctctggc ctttctcatt atctactaca gcttgctacc tgactcatca 420
 aaggcacatg ggtgttgcaa gagaggatgg gaaccgggtg gtttatacca ttaaactggc 480
 cattataaca gggagctata aggtggaaaa ataggagncc aggaaataaa gccg 534

<210> 662
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W46395

<220>
 <221> unsure
 <222> (1)..(444)
 <223> n = a or c or g or t

<400> 662
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 ctcccatgca cttgcccag ggggcctctt tgggacgggg atggtttgag gaaacacttt 120
 taaagaaaaa aggaagacat tgaaagggtt tagtttcttc cctatctgca tgtcctctca 180
 tatagaaagc ccagaattag gggctagaac tccaggagag ggtctccccg actcatctct 240
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 ctcccaggcc ttctgtggtc cctcctcgc cccctgcaat ctttgggagg agtcagtgcc 360
 tcaactccagc agtgagtgcc tactgtatgc aggtagtcag ccaggcaaag agagactaac 420
 ggtctcatgg gggaacctct tgan 444

<210> 663
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W49708

<400> 663
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 tgggtggttaag aagggagcca agtgacagaa ggtctccaag gcataggaga tgggtgtccg 180
 tgagtctggg gaaccgagga ttatgaagcc tgctggaagc cttggtatgg tatggttctt 240
 ctcagctgtg gctgcagatt tctcttcatt ggctgcctcc tctgaaaaca gactcctctt 300
 ttctgcaatt aatcttttaa ctctaccat ccaactgactt gacctcagtc acatgggtcaa 360
 ccatgagggg gcgggtggatg tcatctgctg cgtcccaccg gtggcttgaa aagctcttgc 420
 accagtagag ccattctctt ctttacaggg tattgacaac tttcctccaa gccactgtt 480

ccttgcaag

489

<210> 664

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W51743

<220>

<221> unsure

<222> (1)..(678)

<223> n = a or c or g or t

<400> 664

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cacaaaaaaaaa aaatcactaa aaattcccac aaatccttggt tctggcactt tagaaaaact 60
gcaaaaaaaaaa acgtaataaa gaatacatat atatatatct acacacaaat tatatatcta 120
tctatctata cagcgggaacc acaagagaga ctgaggaagg cctggaggca ggggcagagg 180
tgacgcagct gcccttatat ccttaaccca tactcctctg aggcaaacag gcatgggaaa 240
atggaagggt tgaggatgga cgggagaatt ggaacttcag aatagggtcaa aattccaaaa 300
ccatggacat ttttttttgg gagaattgag attgtagaca tttttttttt cttaaatatg 360
atcaaggaaa atagcttcca gaatgtggtg gttctgggca acaaatgaga ttgtggcgac 420
gtggagatta aaatatatgt atttgagctg gggaatttga atattgtgag tttcagatgt 480
tggaattttg ggatttttgc gttttgtctt ttgaaaatga tcaagtcttg tcagttcgtg 540
ccctctttcc ccatgttccc tgggaagacg ggtggtggca gagtgagaag gccactggtc 600
tgtgccgcac acgcaaaatt tagaatctcc agctagctct atcgtgtgag gnccagatta 660
gggaantgcc atattacc                                     678

```

<210> 665

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52065

<220>

<221> unsure

<222> (1)..(453)

<223> n = a or c or g or t

<400> 665

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tttttttttt ttttttcaga ggtcaaatac cttttattct ttaaggattc agtgtaacat 60
ccttttcttt aataaaataa tttaaacactg gcagaaatta acttattcaa aaagtcatac 120
taatactttg ttatgacttt ttatagaaaa acaaacttta tttttttatt tttttgagat 180
ggagtcttgc tctgtcacct aggctggagc gcaatggcac gatctcagct cactgtagcc 240
tccacctccc aggttcaagc gattccccctg ccttagcctc ccgagtagct ggaattacag 300
gtgtgcgcta ccatgcctgg gctaattttt gtatttttag tagagatggg gtttcacccat 360
gttgggaagg ctggtttcga actcctgacc tcagggtggat tcacccgcct tggcctccca 420
aagtggctgg gattataggg gtgacagcct gna                                     453

```

<210> 666

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52638

<220>

<221> unsure

<222> (1) .. (466)

<223> n = a or c or g or t

<400> 666

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ctcagtttgg gaccaaactg cttggatctt tgtaaaaacc cggtttttga tgtcaaggag 60
gagttttaagg cttttccgac caccttgtgt tccccttttc tgcgccaccat gtatcacgtg 120
gagttgctcc ttaccacacc tcacgtgccc ctgagcccta tttcctgatt tcttctgggc 180
tggaacttccc cgttctccac cagcagctcc agtatcccaa actttctagt cctgctgac 240
ctcccagcaa cggggtggaa actggagggc agtgtctggg ctgttttcta agaaacttat 300
gaattctatt atctttacaa atatgagaaa attttttcaa tattttttat taatcttttt 360
ataaaatgaa aagaaactcc tatgatcgat taaggaagggt gggtatggct ggggtggttca 420
ggggtttttt tgggtttcnt tttttttttt cnttgtcctt ttaacg 466

```

<210> 667

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52858

<400> 667

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cacggccaaa atccataaag attataaaag caaactaagt tgtgaagcta tagtacatgt 60
aggcatttag ttaagtatag caattcaaac tgacctgcat ccatccaaaa caaatcctc 120
cttcaacctt atttttactt gaaatttgct agaagaaata gcaaaccga aatttgttt 180
atgcatgagt taataccact ggctcagcaa atacaagtta gtttgcttta agcaggtaac 240
tttttttgtg atggaacgaa atgcactaca aagttaagac agatttttgc taagtgcagg 300
aggcccttta ttattgctgc agaaaacaaa agcctggctg agttgatgtt ttacattctc 360
ccttactgaa atctacatga catgatgctt cttgctgggt ttttgtacat ggtaaacatt 420
gggtcaagctg tgaaagaaaa tgggctggag gtgtgctttg gtgtggaaag ggtgagcaat 480
aaaggtatcc ggttaagttc cccaaaaaaa a 511

```

<210> 668

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W56792

<400> 668

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catcattttt tattgtaaga aaatacacag tttgaaagtg tgaataatgc aatatttatg 60
accaagaaat gggacttagg aaggggaagg aagataaaga aaaagatcaa gatgatctga 120
ttgagagaca gtgttgaaact ccaaatactg aactggaaaa ggaggagggt ggggaggaac 180
aggaggagga agtaaaaaaa tttgatcaga gaaacagtta aaatacaata tgaaaaataag 240
taatacctct ccttaaatcc cttctataca caaaatacac gatttgccaa agcccaattt 300
gtgctactgg gattctgtga gctccttaag tgtattcaca tcctctgcaa cagcagaaaa 360
tgattatgat acaatcagaa tatgctgaag acaagttaaa ctcttgccag cagggttcctt 420
aaaaat 426

```

<210> 669
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W57931

<220>
 <221> unsure
 <222> (1)..(426)
 <223> n = a or c or g or t

<400> 669
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 gtgaagcccc tttggttnta agagcatttt cctgcttcct ttgttcttcc tgcaacttct 120
 gctgcctgag ctgccatgct tgtaatccag cgtccatttc ctgtgacagc agtacaactc 180
 gtcttgcaaa cgtctccctt tcagcttttc ttcgaagctg gcctttcatt gggggagcag 240
 ggcggccatc cgattatgac cagtctggga gctcggtaag gggcccgtaa gccgganggg 300
 ttggcagcca agtccctgct gtantcgcca ctggccgccc gcccaagcgg ttacnttgca 360
 gtgcaccctt ccggacacct gtgaagagaa cagtccctaa agcagccatg tgagcagcct 420
 cgtgcc 426

<210> 670
 <211> 98
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W60186

<400> 670
 aacttacaaa caaaaatacc gtaataataa acccaaacaa agaccctcag cttgctgcca 60
 cgttctctat gcggtttggc ggggcgggta tttaacaag 98

<210> 671
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W63793

<220>
 <221> unsure
 <222> (1)..(597)
 <223> n = a or c or g or t

<400> 671
 ggaactgaga aaacagcaaa gttgactaaa ttttatattt cttgtcctct aaatatatttg 60
 ataatttctg gattgatgca gtgatgtttt tgttccttcc gtatttataa atgaaacacc 120
 ttttttttagt gtttctaaac ctaaaatcta cttggtttga aatcaagtgg ttggaacact 180
 gtttgacttt tatttgaagc atgttggttga ttgaaaattt cattgaggaa gttttcaatc 240
 agtgtgatca gtttgattct gtaatgagca cagcacctaa tattttgagg agctctgttt 300
 tgaggaccaaa tgcttaagggt ggactttgtt cgtaaacaat atcccaatag atttgttgac 360
 ttgaggtctg gtttggtttt gtttttgttt tgttttgttt tgttttgttt ccaatagaat 420

```

taagaattct aatgttgaaa aactgcacaa atttttatgg gacaaagcct agaaaagaga 480
aatgtagttt gaatcataac caaaaccacg gatgatagaa gagggaaagt ttggggccat 540
aatttctcct tcactgggtg tgacctaaac cgttggaaag gaattccggn cccaatt 597

```

<210> 672

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67225

<400> 672

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ttttgtgttc caataaaatt ttattaacaa aatatgacag tggggggggcc acagtttgcc 60
aaactttgcc ttggaggaca tgcagaggca ccctcagaat tcagtgaaaa cctgctccca 120
tattgctaag actcatgaag tataatctct catcttcttt ctctttcccc tgcccaagcc 180
ctaagttagg gttcccatcc atataacaaa gacttctggt caggtggcat ttgctatctc 240
tgagattccc tgcccatgaa agccacaaa agatttcttc ttttacacac cctgaagcat 300
attatggccc cagcaaggct aactaaatca aactgtggtt taaaaacaaa acaaaccaac 360
cactgtgaaa tattttattt tgtttttagg tattaagcat gattaaacca gtgcagaaaa 420
atactaagta cattgggtaa aagatga 447

```

<210> 673

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67577

<220>

<221> unsure

<222> (1)..(411)

<223> n = a or c or g or t

<400> 673

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ctaattacta ctttttattc taatgtgaac catgggccct ggaaagctga taacaagctt 60
ggctgagcag agggaaactag gggtcaggca gaaaggatta tgggntggaa aacattggct 120
cttccttggg nagtggatgc tngggaaaagg ggaagagagt ggctcancct ggcaggtaaa 180
taggctagaa aagccaaggc caaanctggn gaggggagag gacagtcagc atgtccagcc 240
tggggtctgg gtgtaagggt tatcccttct ccctgggtgcc ttcccatctc gtccatgagc 300
ctaaggctctt gggagccttg tgttgggagg ctgctgtgat gtcagggaac ggggatctgt 360
ctagcttttg gccacttctt ggggacctca caccctgtt tganaaattg g 411

```

<210> 674

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W69302

<400> 674

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gctttcgggt gttccttggt gactgggaat tgcttgtgtg catgtgttgg gtgcatgctt 60
ccgggtctca gctgccccag gcccgcacag gcaaccctt cccatccaaa gccattgggt 120
gagcttctct ggaatcattt gccaaaagcc caaggcagaa tccaagggtc caagaccatt 180

```



```
tccatggagc tcatgttttt cttttctgta ggaacttttt ttttaaccagc acccaccata 240
attccgaagc cacgttttcat ctttcctgga tcactacagt gaagtattac acgttgtaca 300
cgttcccagt ctggccttgg cttgctcgga taaaactttg tatgtatttt gtatggcata 360
gattctatat tgtaatgatg tcctatgcaa aaagagaaat taacgaaatt gtaaatttta 420
ttgttttaac gtgtatgcat gtttagtgac gtttacattt tgaaataaaa ttt 473
```

<210> 675

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70131

<400> 675

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gttttttgac ttcattttatt atataaggaa cctaactcaa attggcttaa gcaattaata 60
aatgtttatt gttacattgt tgtaatgtgg ctggaaatcc agaagtcata caaatctgtc 120
aggattgg 128
```

<210> 676

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70167

<220>

<221> unsure

<222> (1)..(428)

<223> n = a or c or g or t

<400> 676

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cagttctgtc ctttcgagaa aaacgtggaa tcgacgagga ctttcctgca gacggtgagc 60
agtgagaagg tccgctccac taatctcaac tgctcagtga ttgcggacgt gaggcattgac 120
ggctccgagc cctgcgtcgg acgtgctgtt cggagacggg catcgctcga ttatgcgcgg 180
cgtcatctca ccgctctgga aatgctcacc gccttcgcct cccacatccg ggccaggagc 240
gcggcgggca gcgggggacaa gccgggcgct gatactggtc gctgacagcg ccaaagagac 300
caacaagatg attttagcgt ggactaggac acttaaccta agaagagttt cacttaatca 360
ttcaaatac tatctgaagg gtcacggagc gcaaaataaa gtttaaaacc ctgctaccaa 420
aaaaaaaa 428
```

<210> 677

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73038

<400> 677

```
tttttttttt ttttttaaaa atcagatggg gactttattg tgatggtggc aggtccacca 60
gcagatgcaa atgtggggtg ctgagagtgg caacacaggc caccctaaac caacttcact 120
ccctcccctg tcctcagcca gtacagaagc caaatgtagc cccagcccta gactccagcc 180
caggcagagt ccaagggagg ggtgtcaggg tcagaagtca caggagagcc agtgactatc 240
aaggtggctg agagcaaggc tagggtaggg atggggcaga gaaagggcag ggggtgcagc 300
```

ccaggtggcc caaagcaaca cagaggagca agggctggca ttcaagtcag caggtccct 359

<210> 678

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73790

<220>

<221> unsure

<222> (1)..(620)

<223> n = a or c or g or t

<400> 678

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ctggttgaca aagaggggtat ttattgaggg tttactgggt acanggagaa gggctggatg 60
gcttgggatg cagagagaga cccttccctt gggatcctgc agctccaggc ccctttgggt 120
ggggtcgggg ctgggaacct atgaacattc tgcaggggcc accgtcttct ccacggtgct 180
cccttcgtgc atgacctggc agctgtagct tctgcgggac ctccactgct cgggcgtcag 240
gctcaggtag ctgctggccg cgtacttggt gttgctctgt ttggagggcg tggtcactctc 300
cacgccctgg gtgatggggg taccatctgc cttccaggtc accgtcaaga ttcccggata 360
aaagtcattc atgagacaca ccagtgtagc cttgttggct tggagctcct cagaggacgg 420
cgggaacaga gtgaccgagg ggggtggcctt ggntgactta aaacggtgag ctgggtcccg 480
ctgccaaaca catgcgtcac tgagttatgc ttggattgaa accccggggc cancaacttg 540
ggcagtcag gagccgcctt gaacaggaac ctgcccaccg gttcctaagc ttgaccgctg 600
nttctccagg gtccaggnc 620

```

<210> 679

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73859

<220>

<221> unsure

<222> (1)..(697)

<223> n = a or c or g or t

<400> 679

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tggacacgct caggctggcg tccagctaca tcgcccactt gaggcagatc ctggctaacg 60
acaaatacga gaacgggtac attcaccggg tcaacctgac gtggcccttt atggtggccg 120
ggaaacccga gactgacctg aaagaagtgg tgaccgcgag ccgcttatgt ggaaccaccg 180
cgtcctgacc ttggaggtgc gactctggga aaggcgcgct cccgggggga ngcgcnct 240
gggaaggcga cccctgccct cagtgtcttc tgtctctgct tccccctcgc aatgctcctc 300
tctctgtccc accccgcgag aacactttac aacgacgagg agattcgttt ccaaaccaga 360
ggagatcaat tgtacttaca aagattccca tctattttaac tttattaact tctaccgtga 420
atgactctgc aagccttgct ggtccaagtg caatatgtaa ttataaatat ataaatagat 480
aagagcctat caatgtatct tttgtacaat atgttgtaaa atgtagatca taggatagct 540
gactttgaca gtcacattta taaagtaatt cacttaaaga tatatatatt tccaacaagt 600
ttgcactttt gaaataaacc ttctttatat gctaaaaaaa aaaaaaagat nggcggant 660
tccttggggg gtaattantt gatgcgcggt aangcgg 697

```

<210> 680

<211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W74533

<220>
 <221> unsure
 <222> (1)..(676)
 <223> n = a or c or g or t

<400> 680
 ttttttcagtt ggacacaaat gtattttatatt taccctagca atagaacaaa atataatttc 60
 ttttagccatt tttcatgaga atagttcatt gtacagttga ggaaacatat gaaataaggc 120
 ctgtggttga ttgctagtgg ttaagcatgt tttcaatctt tgccttaatg taaaagattt 180
 gcagtgaact gcaaaactgat gcagaatatc tctcctgctt ttccaagtct tgtcaggaat 240
 agtaaggtag agtaaatttg tcccacagga ttttaaagcc tacgtcttgt atataatata 300
 atgcaggcct acaaaaatgg tgcagccata ttacaaaatt tagttcacag actgctgcag 360
 taaaatggct ggaaagtatt gttttgcttg ttccacaatt tctctaaaca gcagcagaat 420
 cttaaaatata ctggctggca tctcttttct ttgtaacaaa taattcactt tagtatactc 480
 tgtgtatata caaagttttt gtatgtttta taaaaattca cagaactgca aggttcagtc 540
 actttttttac accagagaac cacagggtcaa gagcactctt caagcagagt tgaggggactg 600
 cgnagccaat ggtgccttat tattaaaccc gcatgggcct ggatcctagc tgagataagn 660
 tgtaccacgc atgcct 676

<210> 681
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W76181

<220>
 <221> unsure
 <222> (1)..(487)
 <223> n = a or c or g or t

<400> 681
 cgaggagtcg gggcaaagct gggcctgcgt gagattcgca tccacttatg tcagcgctcg 60
 cccggcagcc aggggtcagg gacttcattg agaaacgcta cgtggagctg aagaaggcga 120
 atcccgacct acccatccta atccgcgaat nctccgatgt gcagcccaag ctctgggccc 180
 gctacgcatt tggccaagag acgaatgtcc ctttgaacaa cttcagtgtc gatcaggtaa 240
 ccagagccct ggagaacgtt ctaagtggta aagcctgaag cctccactga ggattaagag 300
 caacagcccc agagcctggg ctctgctgga cttagtataa tgtgaaaaaa atgtgttctc 360
 ctattcctca taaagcttgt gctgtaaaat actttctcag ggtgttcttg tcctcatcta 420
 ccctctaccc cttactgtgc aaccactgag gcaaagtagc ttaatatata aataaaactt 480
 tattctggtc tcaaaa 496

<210> 682
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. W78127

<400> 682

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gaaaagacgt gcttgtcatt cttaataaac aactagagta agaatacata agagaaacag 60
agtggatctt ttatatgata cacaagtgtg tgttacaaga attccatcag gcacaggagc 120
ctcagggtttt aaggcctcaa tgttaggcca acaaaaaaaaa aaaaggcatg gtaaagtttt 180
tactttttaca tctaaaatgt cacttgtcat aaaggagggt gtaatagaaa ttgtctttta 240
taaatacataa ttgaagttcc cctcattttt cttccattaa gatgctaagt ttatgtctga 300
tcatgaagaa agaaa 315
```

<210> 683

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W86513

<220>

<221> unsure

<222> (1)..(418)

<223> n = a or c or g or t

<400> 683

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ccagtgaaac tcatttttatt ttcagctgaa aaatatacac agataagcat taaaattgaa 60
ttattatagg ttttctgaaa ataaaaat tttt acaatactta tgtttaacaa agattaaaaa 120
attcaaacaa atcaggaagg cacagggtctt gtaaaatgta ataaagaatt tagtccatac 180
cttgatgcat agtgggtggca ttaaattggca caatttttctg gtatcatgcc tgccctgcctt 240
agatctcaaa cagacctact ctcttttctc tcttttctcat cttacaaac ttttgataat 300
caagcatcat agtatgacaa agagagtaac aagagctgtg caggccagca catccagaga 360
gcagtactga aaccagggtga gcttgtgggc aggtngcagc aggtacttgg gctccatt 418
```

<210> 684

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W88568

<400> 684

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gtttttttaac attttaattt caacgtgccg gcatttgtcc aaatgagatg atacaggcta 60
gaatgcacgg cggaattcca gactggactc actccataag ccaactcatc actgcccgtg 120
aacatgaatt ctggctctca gagaagctga cattgtttcc ctgaacattc ccgtgggtctc 180
cctctgaaag ccgatgacca tccaacctg actcacctga aatatcctac gagcatcgcc 240
ctccgagact gacgattatt aacca 265
```

<210> 685

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W92207

<220>

<221> unsure
 <222> (1)..(395)
 <223> n = a or c or g or t

<400> 685
 gtgtttccaat aaaacttttat ttacacacat tgaaacctga atttcataca atttttcacgt 60
 taccaaattt taattttttt tcaactattt aaaaatgtta aaaccattct tagctcacag 120
 gctatgcgaa anagancaac cagccagatt cggcccacgg tttaaggcca gtttaagcct 180
 caccaccttc ctagcccccac tcacctattt tgtcctctca tcttcctgtc cttcagcacc 240
 cccatgacct tcctgtgacc ttcaatggcc cctccagctg ccgtccagcc ctgtctgtct 300
 gcccttnggg gaccctctcc tcctgggctg caggactgtt ttttcctgga gcaggtctct 360
 aaatagctcc attcgccttg gcagggggaa tccag 395

<210> 686
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W92449

<400> 686
 ttttttagat tcatcttttt aatgacatcc taaaattcag aggagggggc agcggggacct 60
 ctgggctcag cggctgtgaa ggaggggacc gcaacacccg ctaaggcagg taattgcaag 120
 aaggcactcg cgagggggac ttcaagcccc tcttctattt cttcatataa aatcaggggg 180
 atgggggaaag ctccaagggc gaggggaagca gagagtctct ctcccagcct atggaataag 240
 g 241

<210> 687
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W94333

<400> 687
 tgaacatttc atcttttact ttttagcacc aacagacttg ataacagcct gatgctgatc 60
 tgacaatggg ttgatagcct tccccactg acccttaaat ctgcttagta acaagtcctt 120
 tgcttctgtc attctcctgg gggatggcct actcgccctc ctttctgtac aatctgggca 180
 aaccgactgg tgatggcaag agtgggtgtca atgaagcggc ctacacagct ggagagacaa 240
 ttttcagtgc gagagtctag gcgattccct ggcttctcca cacatttato ccaacataac 300
 tccatgaagt gatgcacctg tgcagtaaac tgcgccttct gctgctcggc ggcca 355

<210> 688
 <211> 1761
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. X00351

<400> 688
 ttgccgatcc gccgcccgtc cacacccgcc gccagctcac catggatgat gatatcgccg 60
 cgctcgtcgt cgacaacggc tcgggcatgt gcaaggccgg cttcgcgggc gacgatgcc 120
 cccgggcccgt cttccctcc atcgtggggc gcccaggca ccagggcgtg atgggtgggca 180

```

tgggtcagaa ggattcctat gtgggcgacg aggccagag caagagagggc atcctcacc 240
tgaagtaccc catcgagcac ggcacgtca ccaactggga cgacatggag aaaatctggc 300
accacacctt ctacaatgag ctgctgtggt cccccagga gcaccccggtg ctgctgaccg 360
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<213> Homo sapiens

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<223> Genbank Accession No. X07438

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<211> 2511

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X12795

<400> 701

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<211> 3464

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X16354

<400> 702

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<211> 1044

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<213> Homo sapiens

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<400> 703

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<211> 1797

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X51345

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X76180

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<212> DNA

<213> Homo sapiens

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<211> 455

<212> DNA

<213> Homo sapiens

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<211> 2489

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X85785

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<400> 727

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<213> Homo sapiens

<220>

<223> Genbank Accession No. Y08614

<400> 730

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<211> 1890

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Y12711

<400> 731

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<211> 2038

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Z11793

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<211> 260

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38266

<400> 733

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<210> 734

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38744

<220>

<221> unsure

<222> (1) .. (270)

<223> n = a or c or g or t

<400> 734

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<210> 735

<211> 287

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38785

<400> 735

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<210> 736

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z39904

<220>

<221> unsure

<222> (1) .. (323)

<223> n = a or c or g or t

<400> 736

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<210> 737

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z39983

<400> 737

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<211> 254

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<213> Homo sapiens

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<223> Genbank Accession No. Z40186

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<221> unsure

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<400> 738

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<213> Homo sapiens

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<221> unsure

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<211> 292

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Z40715

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<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z40898

<400> 741

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<211> 333

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Z41642

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<221> unsure

<222> (1)..(333)

<223> n = a or c or g or t

<400> 742

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<211> 1569

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Z48501

<400> 743

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<211> 4553

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. Z69881

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<210> 745

<211> 5086

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z74616

<220>

<221> unsure

<222> (1)..(5086)

<223> n = a or c or g or t

<400> 745

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<223> Description of Artificial Sequence: Reverse PCR
primer, PSMA

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236-0004 (JP).

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09/873,319 5 June 2001 (05.06.2001) US

(74) Agent: **TUSCAN, Michael S.**; Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(71) Applicants (*for all designated States except US*): **GENE LOGIC, INC.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **JAPAN TOBACCO, INC.** [JP/JP]; 2-1, Toranomom 2-chome, Minato-ku, Tokyo 105-8422 (JP).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MUNGER, William, E.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **KULKARNI, Prakash** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **GETZENBERG, Robert, H.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **WAGA, Iwao** [JP/JP]; Pharmaceutical Frontier Research Laboratories of Japan Tobacco, Inc., 1-13-2, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004 (JP). **YAMAMOTO, Jun** [JP/JP]; Pharmaceutical Frontier Research Laboratories of Japan Tobacco, Inc., 1-13-2,

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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7 November 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IDENTIFYING DRUGS FOR AND DIAGNOSIS OF BENIGN PROSTATIC HYPERPLASIA USING GENE EXPRESSION PROFILES

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression in prostate tissue isolated from patients exhibiting different clinical states of prostate hyperplasia as compared to normal prostate tissue as well as the identification of individual genes that are differentially expressed in diseased prostate tissue.



WO 02/012440 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68

US CL : 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 514/168

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,763,429 A (BISHOP et al) 9 June 1998(09.06.1978), see entire document.	1-3
X	US 5,882,864 A (AN et al) 16 March 1999(16.03.1999), see entire document.	1-3
X	Bubendorf et al. Survey of Gene Amplifications during Prostate Cancer Progression by High-Throughput Fluorescence in Situ Hybridization on Tissue Microarrays. Can. Res. Issued 15 February 1999, Volume 59, pages 803-806, see entire document.	1-3
X	Bubendorf et al. Hormone Therapy Failure in Human Prostate Cancer: Analysis by Complementary DNA and Tissue Microarrays. J. Nat. Can. Inst. Issued 20 October 1999, Volume 91, Number 20, pages 1758-1764, see entire document.	1-3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 March 2002 (27.03.2002)

Date of mailing of the international search report

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Felicia D. Roberts for
Channing S. Mahatan

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

In a telephone conversation with Michael S. Tuscan, March 15, 2002, to determine whether applicants' elected additional groups it was pointed out that the original lack of unity contained an error whereby Group 1 (claim(s) 1-3), drawn to gene profiling of benign prostatic hyperplasia, was inadvertently omitted. It is hereby agreed upon that the lack of unity requirement be modified by the addition of Group 1. Therefore, the original Group 1-755 is now Group 2-756, the original Group 756-1510 is now Group 757-1511, etc. Applicants' elected newly modified Group 1 (claim(s) 1-3), and no additional groups.

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group 1 (claim(s) 1-3), drawn to gene profiling of benign prostatic hyperplasia (newly modified).

Groups 2-756 (claim(s) 1-7), drawn to a method of identifying an agent that modulates the onset or progression of benign prostatic hyperplasia in cells based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 2 is elected, this correlates with SEQ ID NO: 1.

Groups 757-1511 (claim(s) 8-12), drawn to a method of diagnosing the onset or progression of benign prostatic hyperplasia in a subject based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 757 is elected, this correlates with SEQ ID NO: 1.

Groups 1512-2266 (claim(s) 13-17), drawn to a method of differentiating prostatic hyperplasia from prostate cancer based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example, If Group 1512 is elected, this correlates with SEQ ID NO: 1.

Groups 2267-3021 (claim(s) 18-31), drawn to an oligonucleotide probe of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 2267 is elected, this correlates with SEQ ID NO: 1.

Groups 3022-3776 (claim(s) 32-43), drawn to a computer-system comprising a database of information pertaining to SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 3022 is elected, this correlates with SEQ ID NO: 1.

Groups 3777-4531 (claim(s) 44-48), drawn to a method of monitoring treatment in a patient based on gene expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 3777 is elected, this correlates with SEQ ID NO: 1.

Group 4532 (claim(s) 49 and 50), drawn to a method of analysing gene expression results by implementing an algorithm.

The inventions listed as Groups 1-4532 do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The claimed methods produce different products and/or different results which are not coextensive and which do

INTERNATIONAL SEARCH REPORT

International application No.

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not share the same technical feature; identification of a compound, diagnosing BPH, differentiating from cancer, an oligonucleotide probe, computer-system, monitoring treatment, and analysis with an algorithm. Furthermore, the claims are directed to different genes corresponding to SEQ ID Nos: 1-755. Each of these genes are separate entities which encodes different proteins with different activities, binding reactions, antibody recognition, etc. and thus each has its own special technical feature. Thus, in summary, each of Groups 1-4532 are directed to different special technical features and thus support this lack of unity.

Continuation of B. FIELDS SEARCHED Item 3:

US PAT FULL, COMPUSCIENCE, BIOSIS, BIOCOMMERCE, CAPLUS

search terms: benign prostatic hyperplasia, gene expression, cell, drug, microarray, compare